

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102218\
 Data File : VX005512.D
 Acq On : 23 Oct 2018 10:46
 Operator : JC/MD
 Sample : J5621-11MSD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PA-SW-01MSD

Manual Integrations
 APPROVED

MMDadoda
 10/23/2018 1:28:30 PM

Quant Time: Oct 23 12:24:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	191017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	284768	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	262041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147331	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	126624	59.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.46%	
35) Dibromofluoromethane	5.51	113	100330	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
50) Toluene-d8	8.72	98	346040	53.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.88%	
62) 4-Bromofluorobenzene	11.14	95	130245	53.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	72791	48.738	ug/l	99
3) Chloromethane	1.32	50	111301	51.431	ug/l	100
4) Vinyl Chloride	1.41	62	104668	47.745	ug/l	98
5) Bromomethane	1.64	94	64061	51.720	ug/l	95
6) Chloroethane	1.71	64	66964	51.903	ug/l	98
7) Trichlorofluoromethane	1.92	101	149819	51.211	ug/l	94
8) Diethyl Ether	2.19	74	64113	51.320	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.38	101	83427	49.408	ug/l	99
10) Methyl Iodide	2.51	142	94480	50.979	ug/l	97
11) Tert butyl alcohol	3.09	59	202439	338.517	ug/l	99
12) 1,1-Dichloroethene	2.37	96	82346	49.221	ug/l	93
13) Acrolein	2.29	56	91110	238.655	ug/l	97
14) Allyl chloride	2.73	41	190943	51.985	ug/l #	94
15) Acrylonitrile	3.15	53	390460	288.130	ug/l	98
16) Acetone	2.45	43	374227	305.303	ug/l	95
17) Carbon Disulfide	2.56	76	216918	42.801	ug/l	99
18) Methyl Acetate	2.78	43	212460	60.925	ug/l	92
19) Methyl tert-butyl Ether	3.21	73	337355	57.255	ug/l	98
20) Methylene Chloride	2.85	84	99834	56.056	ug/l #	92
21) trans-1,2-Dichloroethene	3.16	96	90966	49.064	ug/l	87
22) Diisopropyl ether	3.87	45	368260	59.691	ug/l #	91
23) Vinyl Acetate	3.83	43	1311616	243.239	ug/l #	93
24) 1,1-Dichloroethane	3.69	63	186298	52.689	ug/l	99
25) 2-Butanone	4.71	43	553375	308.558	ug/l	93
26) 2,2-Dichloropropane	4.57	77	79274	29.979	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	108969	54.081	ug/l	99
28) Bromochloromethane	5.02	49	91912	57.022	ug/l	92
29) Tetrahydrofuran	5.16	42	374644	327.493	ug/l	93
30) Chloroform	5.22	83	191525	58.359	ug/l	86
31) Cyclohexane	5.57	56	141547	48.571	ug/l	93
32) 1,1,1-Trichloroethane	5.49	97	160165	56.088	ug/l	99
36) 1,1-Dichloropropene	5.80	75	125511	45.509	ug/l	99
37) Ethyl Acetate	4.86	43	181305	51.118	ug/l	97
38) Carbon Tetrachloride	5.78	117	135753	48.988	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	125340	41.991	ug/l	97
40) Benzene	6.14	78	401028	48.472	ug/l #	89
41) Methacrylonitrile	5.06	41	114520	60.227	ug/l	93
42) 1,2-Dichloroethane	6.20	62	154944	53.039	ug/l	94
43) Isopropyl Acetate	6.46	43	275272	58.263	ug/l	96
44) Trichloroethene	7.21	130	107393	50.849	ug/l	88
45) 1,2-Dichloropropane	7.52	63	104329	51.408	ug/l	99
46) Dibromomethane	7.66	93	68442	51.097	ug/l	98
47) Bromodichloromethane	7.90	83	132790	53.597	ug/l	98
48) Methyl methacrylate	7.78	41	146156	59.645	ug/l	93
49) 1,4-Dioxane	7.76	88	67795	1199.501	ug/l	95
51) 4-Methyl-2-Pentanone	8.65	43	1063175	324.987	ug/l	94
52) Toluene	8.79	92	236861	52.331	ug/l	96
53) t-1,3-Dichloropropene	9.04	75	136180	50.789	ug/l	98
54) cis-1,3-Dichloropropene	8.44	75	143679	49.455	ug/l	97
55) 1,1,2-Trichloroethane	9.22	97	103421	53.946	ug/l	96
56) Ethyl methacrylate	9.18	69	165541	59.232	ug/l	92
57) 1,3-Dichloropropane	9.37	76	172417	53.883	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.27	63	1321	0.843	ug/l #	45
59) 2-Hexanone	9.50	43	870839	330.921	ug/l	93
60) Dibromochloromethane	9.58	129	110906	55.966	ug/l	99
61) 1,2-Dibromoethane	9.68	107	107569	53.465	ug/l	98
64) Tetrachloroethene	9.33	164	96437	45.714	ug/l	98
65) Chlorobenzene	10.14	112	270936	48.608	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.23	131	104081	52.399	ug/l	97
67) Ethyl Benzene	10.26	91	458906	50.644	ug/l	98
68) m/p-Xylenes	10.36	106	357766	101.724	ug/l	94
69) o-Xylene	10.70	106	174643	51.487	ug/l	97
70) Styrene	10.71	104	289845	51.952	ug/l	96
71) Bromoform	10.86	173	95189	53.626	ug/l	99
73) Isopropylbenzene	11.02	105	472655	53.966	ug/l	99
74) N-amyl acetate	10.90	43	218522	51.729	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.27	83	181765	55.015	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	159319m	55.749	ug/l	
77) Bromobenzene	11.26	156	126833	50.647	ug/l	97
78) n-propylbenzene	11.36	91	537112	53.292	ug/l	99
79) 2-Chlorotoluene	11.42	91	329063	53.311	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	407061	54.274	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.08	75	43464	46.212	ug/l	99
82) 4-Chlorotoluene	11.51	91	385377	52.669	ug/l	99
83) tert-Butylbenzene	11.77	119	403308	53.101	ug/l	97
84) 1,2,4-Trimethylbenzene	11.81	105	416126	53.913	ug/l	98
85) sec-Butylbenzene	11.95	105	473255	52.653	ug/l	99
86) p-Isopropyltoluene	12.07	119	420605	51.774	ug/l	98
87) 1,3-Dichlorobenzene	12.02	146	234766	50.169	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	239789	50.090	ug/l	99
89) n-Butylbenzene	12.39	91	361174	48.965	ug/l	97
90) Hexachloroethane	12.60	117	74808	53.431	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	239995	50.257	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	47913	59.451	ug/l	93

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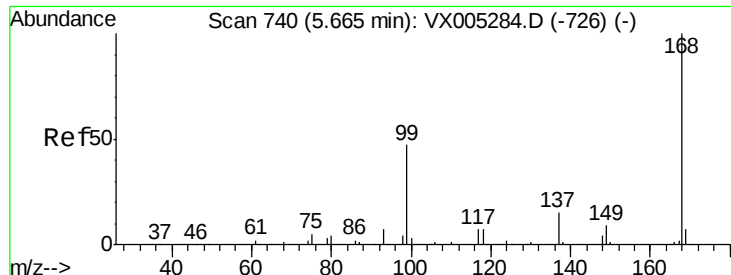
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	175774	50.171	ug/l	100
94) Hexachlorobutadiene	13.79	225	79133	42.766	ug/l	96
95) Naphthalene	13.83	128	601322	59.182	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	184334	51.421	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion:168 Resp: 191017

Ion Ratio Lower Upper

168 100

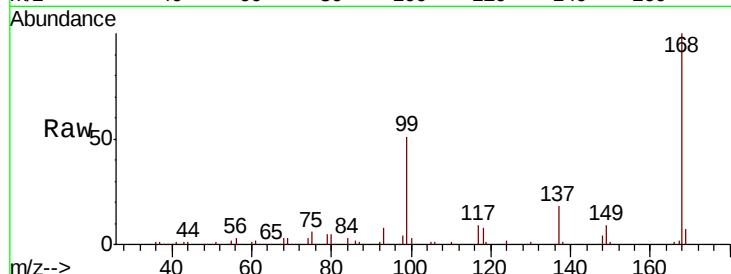
99 50.6 39.9 59.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

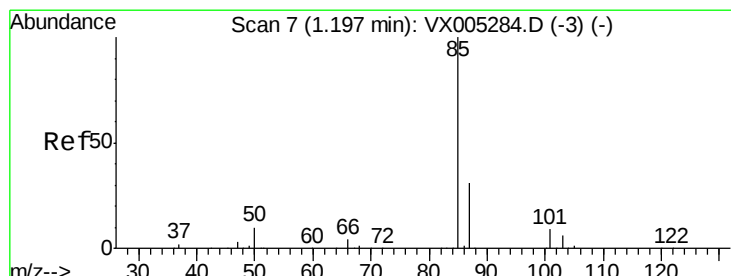
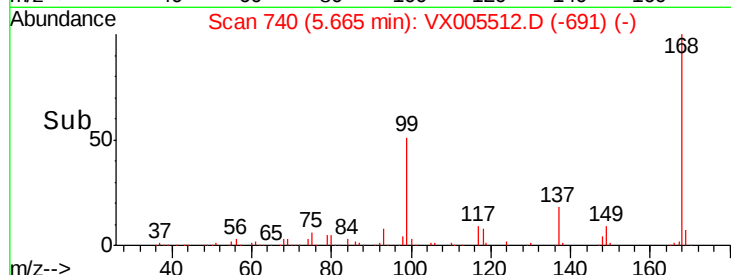
40000

20000

0

5.50 5.60 5.70 5.80 5.90

Time-->



#2

Dichlorodifluoromethane

Concen: 48.738 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX005512.D

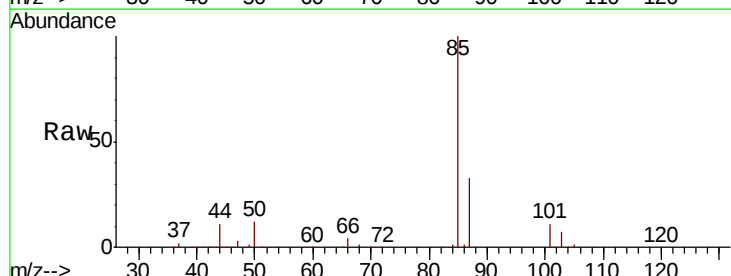
Acq: 23 Oct 2018 10:46

Tgt Ion: 85 Resp: 72791

Ion Ratio Lower Upper

85 100

87 33.4 17.0 50.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

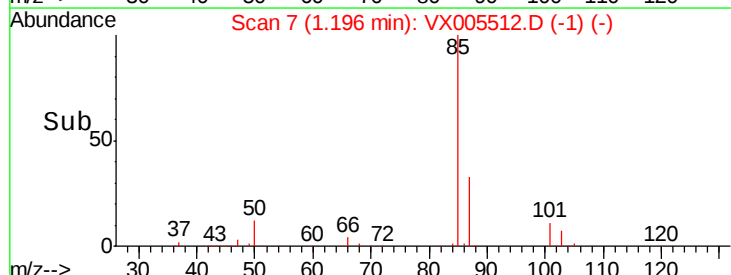
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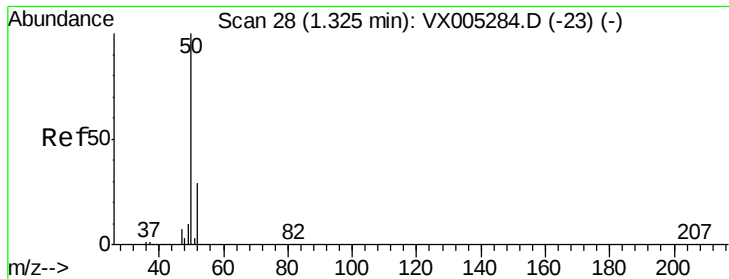
20000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 51.431 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 50 Resp: 111301

Ion Ratio Lower Upper

50 100

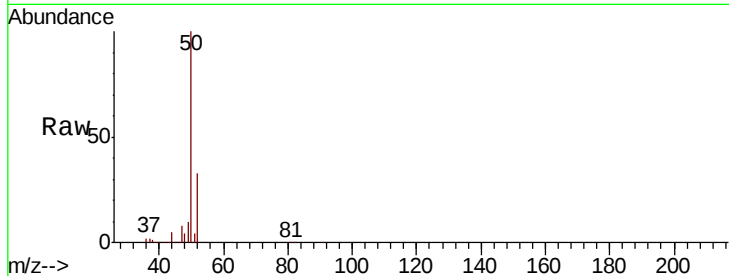
52 32.7 26.2 39.2

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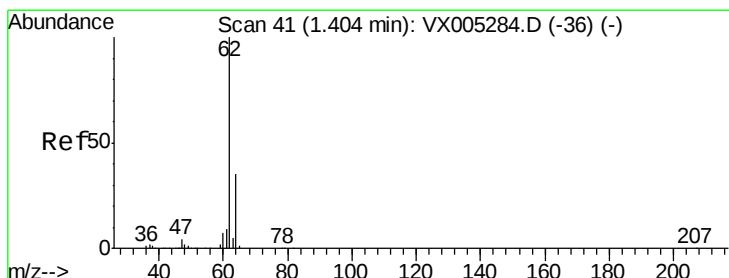
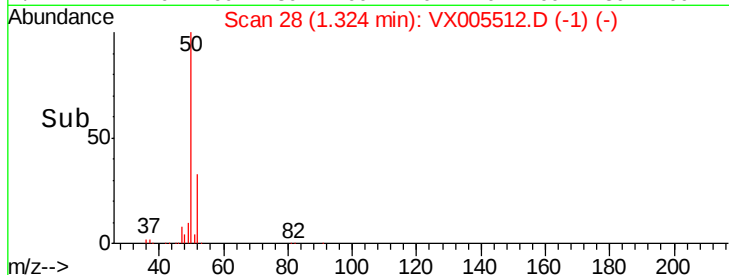
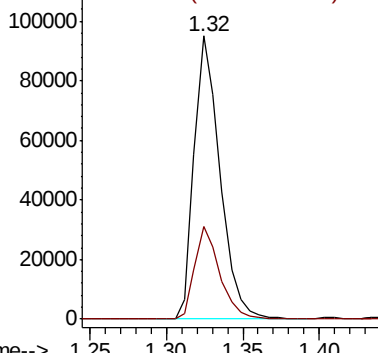
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 47.745 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.01 min

Lab File: VX005512.D

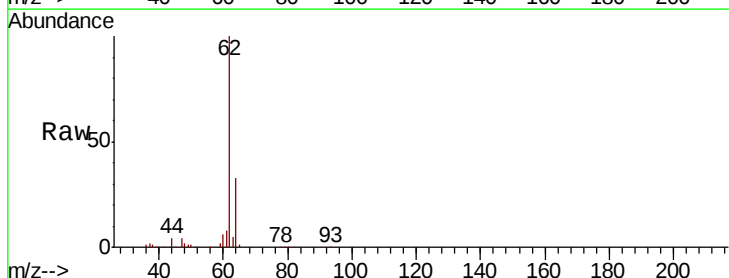
Acq: 23 Oct 2018 10:46

Tgt Ion: 62 Resp: 104668

Ion Ratio Lower Upper

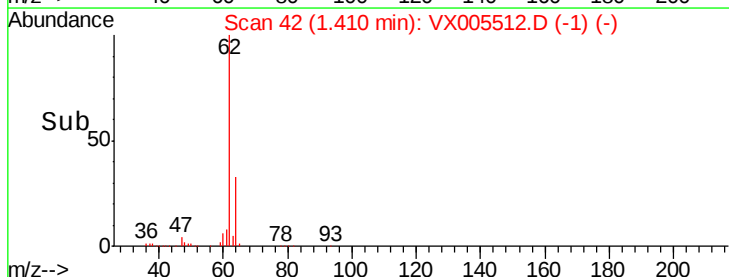
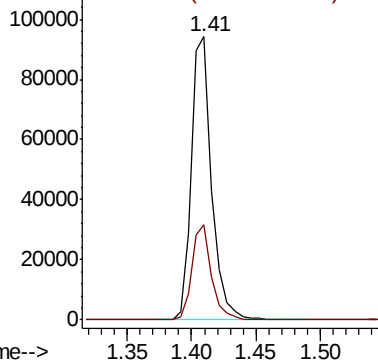
62 100

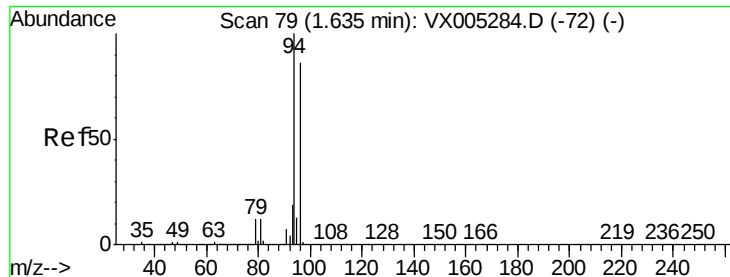
64 33.4 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 51.720 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 94 Resp: 64061

Ion Ratio Lower Upper

94 100

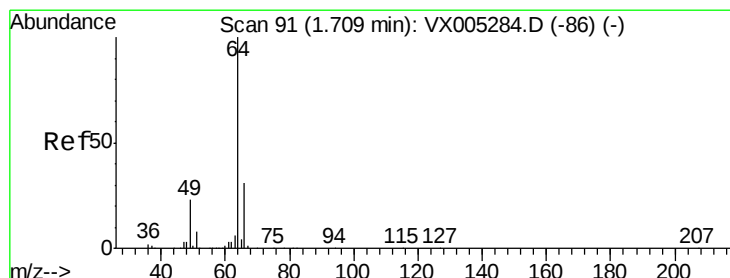
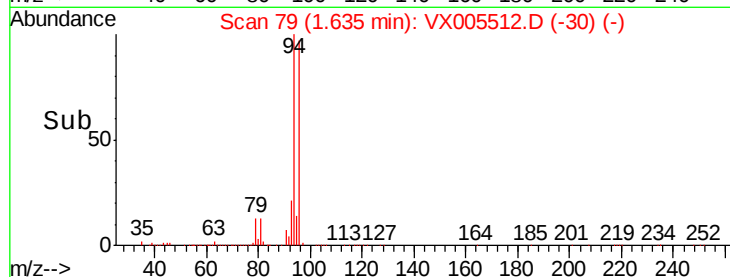
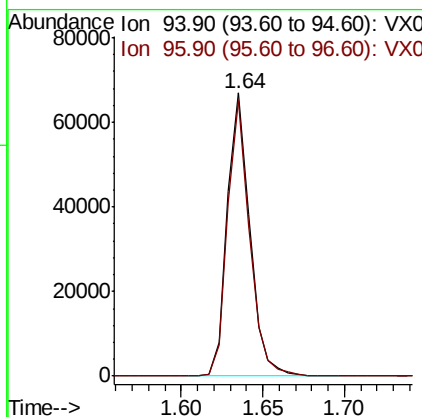
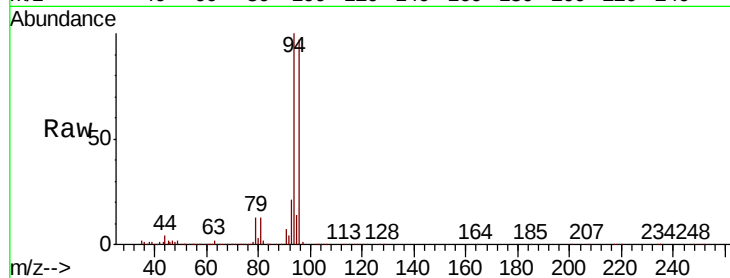
96 97.5 74.5 111.7

Manual Integrations

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#6

Chloroethane

Concen: 51.903 ug/l

RT: 1.71 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX005512.D

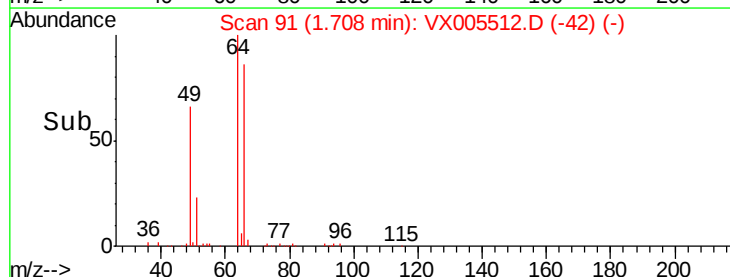
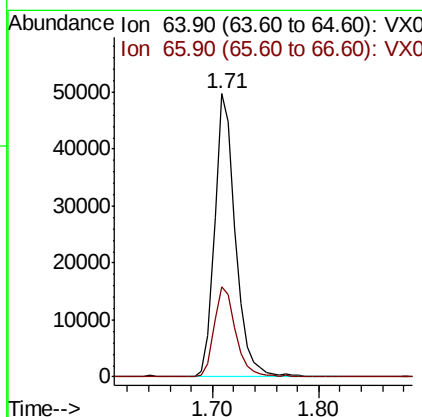
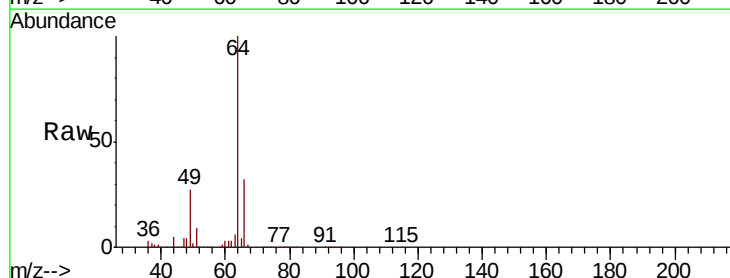
Acq: 23 Oct 2018 10:46

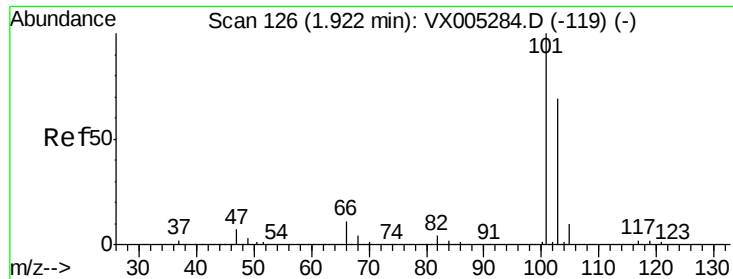
Tgt Ion: 64 Resp: 66964

Ion Ratio Lower Upper

64 100

66 31.6 24.6 36.8





#7

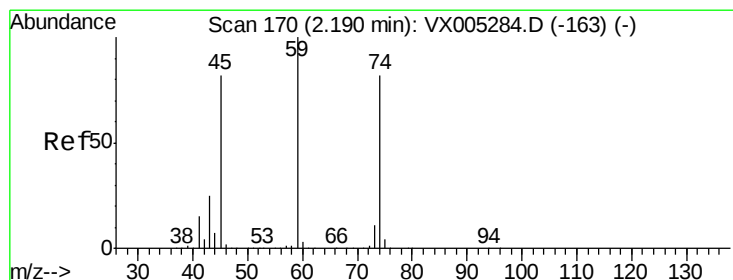
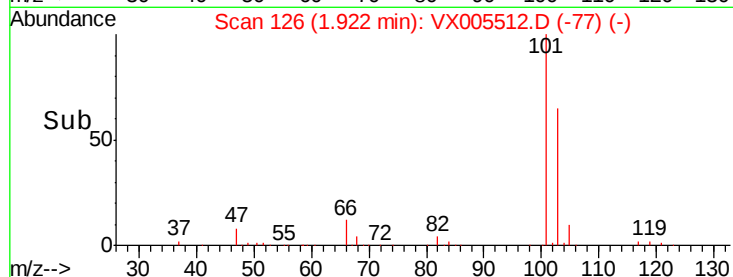
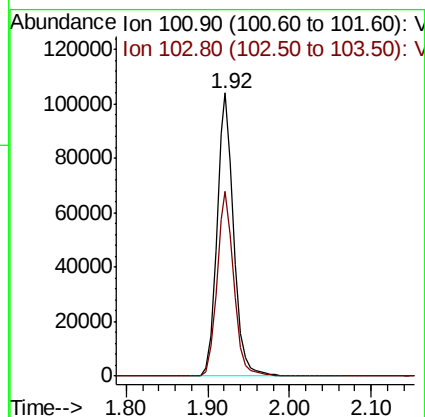
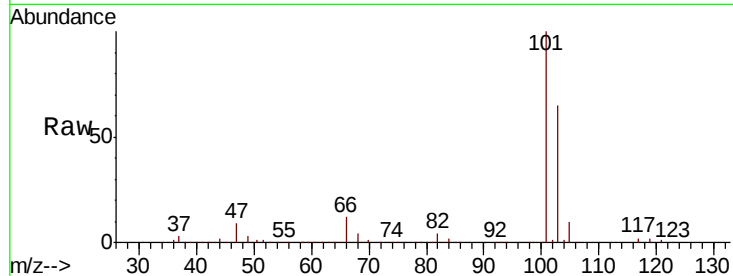
Trichlorofluoromethane
 Concen: 51.211 ug/l
 RT: 1.92 min Scan# 126
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Instrument :
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 ClientSampleId :
 PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	48.9	73.3

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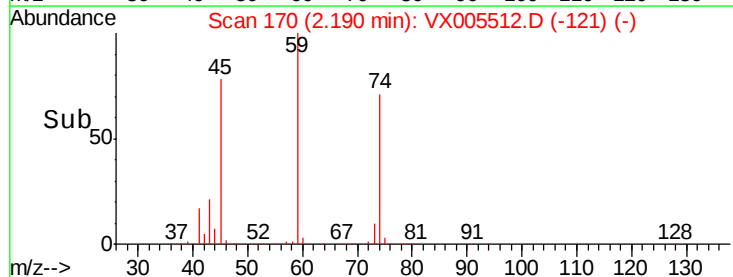
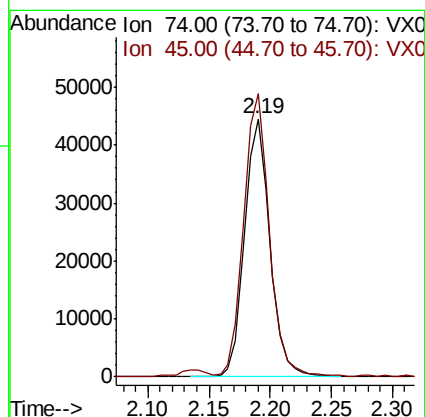
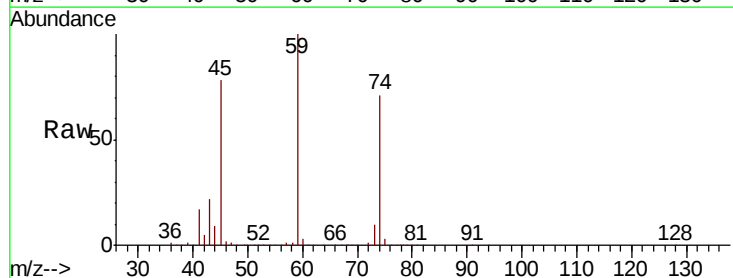
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 10/23/2018 1:28:30 PM

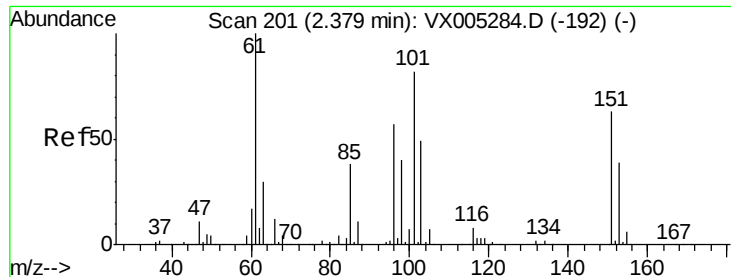


#8

Diethyl Ether
 Concen: 51.320 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. -0.00 min
 Lab File: VX005512.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.6	48.3	144.8





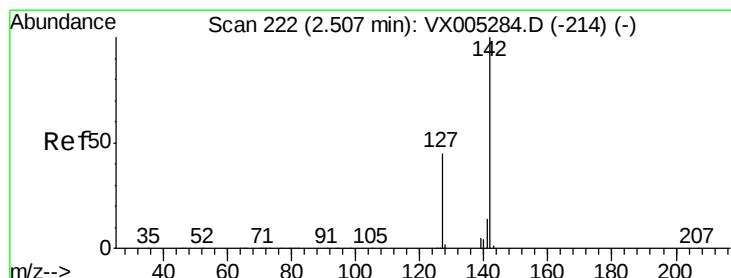
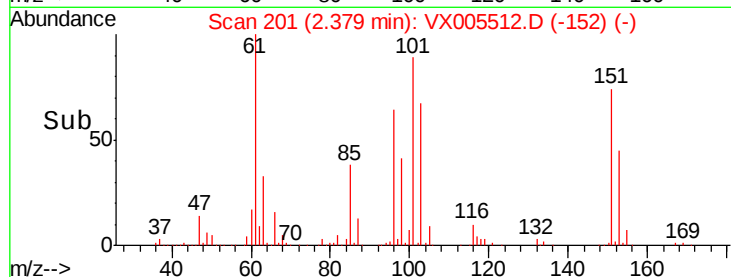
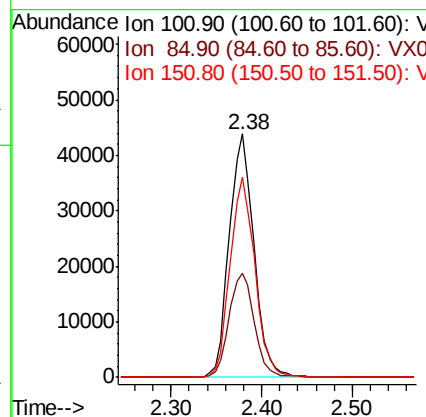
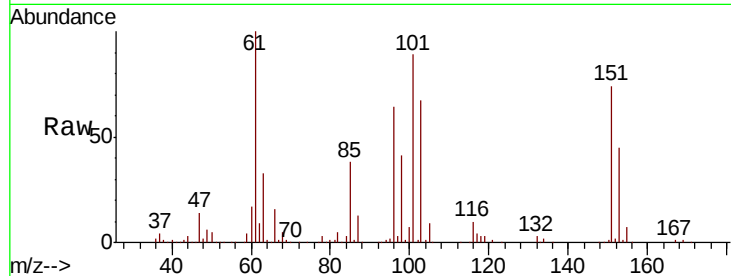
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.408 ug/l
RT: 2.38 min Scan# 201
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.2	51.4
151	82.4	65.0	97.6

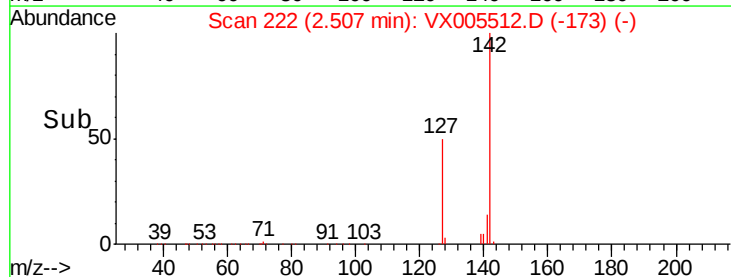
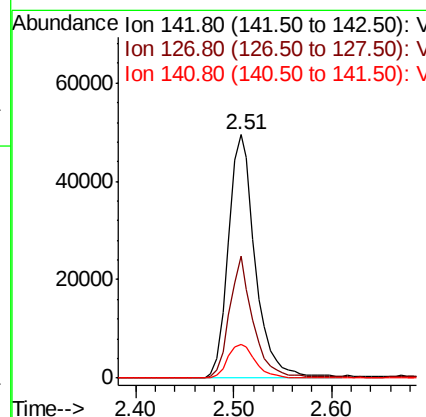
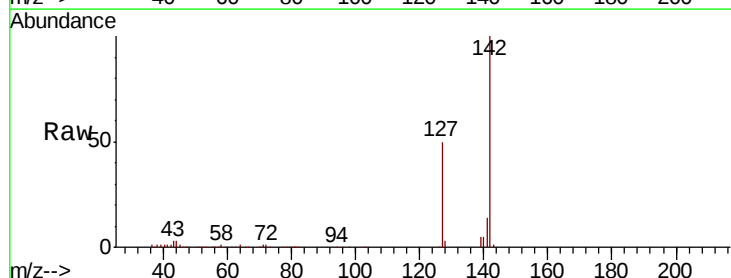
Manual Integrations
APPROVED

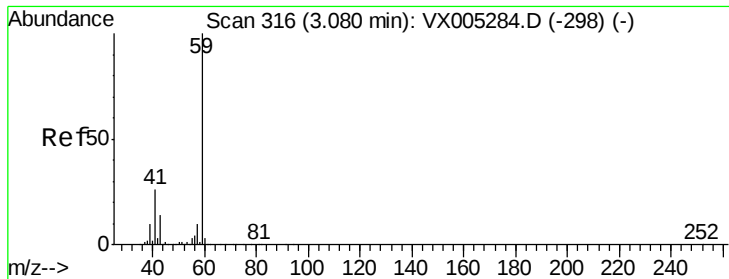
MMDadoda
10/23/2018 1:28:30 PM



#10
Methyl Iodide
Concen: 50.979 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
142	100		
127	44.6	33.8	50.6
141	14.4	11.4	17.0





#11

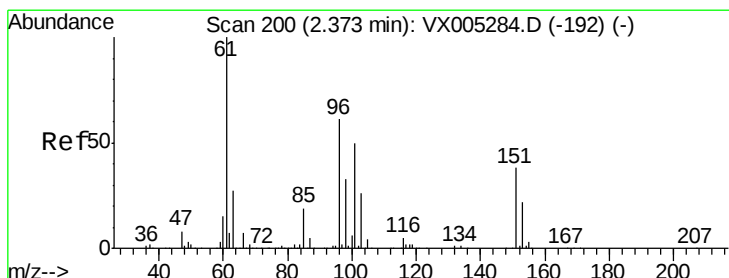
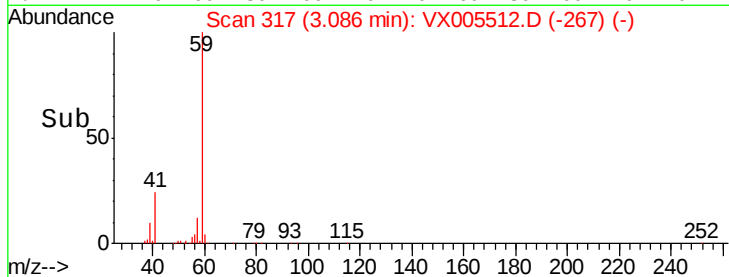
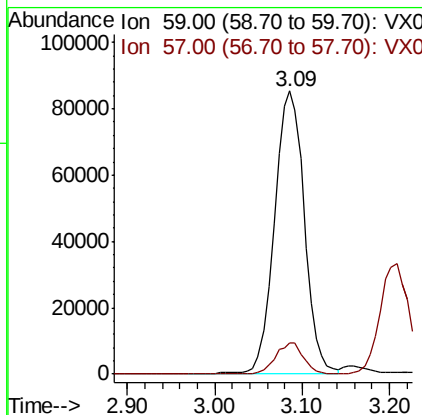
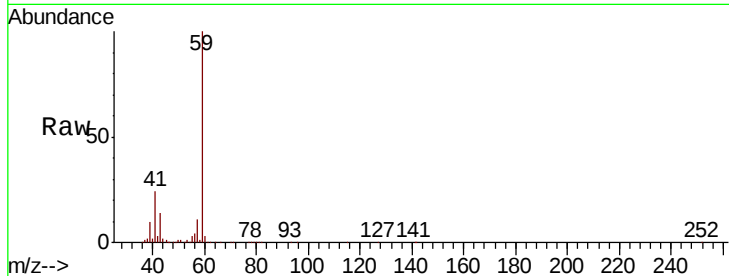
Tert butyl alcohol
Concen: 338.517 ug/l
RT: 3.09 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4

Manual Integrations
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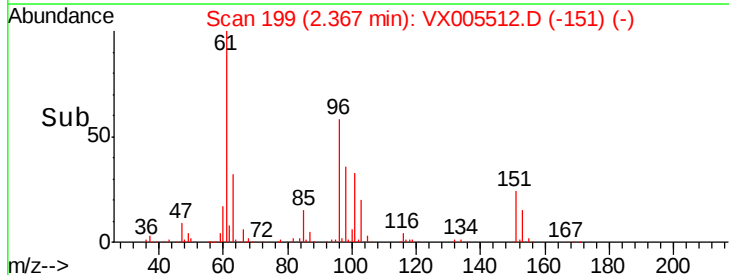
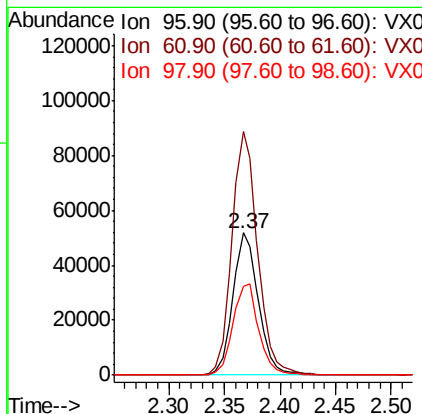
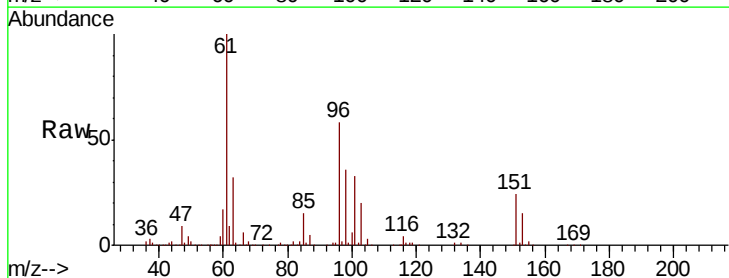
MMDadoda
10/23/2018 1:28:30 PM

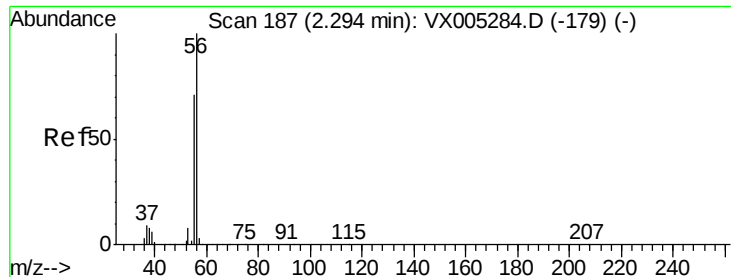


#12

1,1-Dichloroethene
Concen: 49.221 ug/l
RT: 2.37 min Scan# 199
Delta R.T. -0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.2	128.8	193.2
98	62.1	52.2	78.2





#13

Acrolein

Concen: 238.655 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 56 Resp: 91110

Ion Ratio Lower Upper

56 100

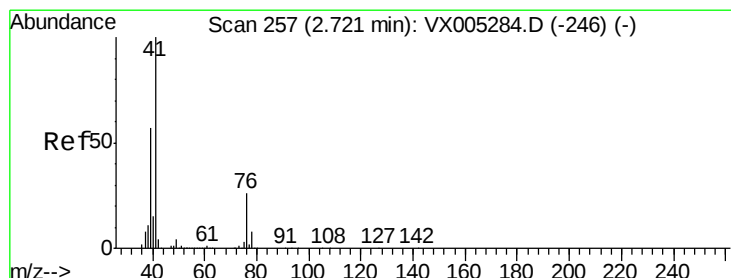
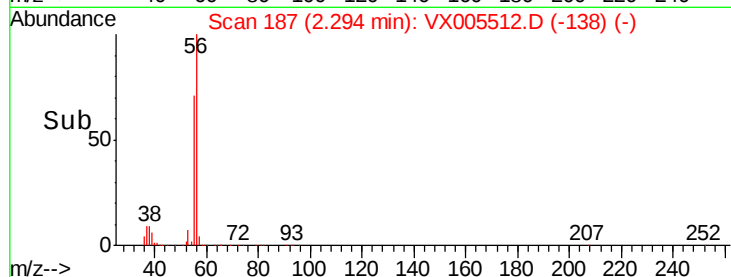
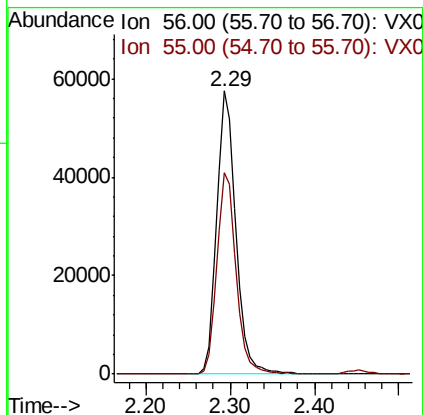
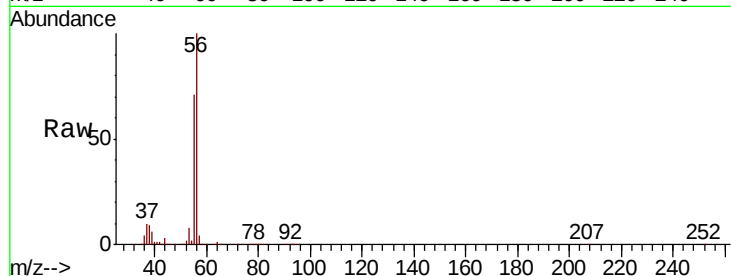
55 70.8 54.7 82.1

Manual Integrations

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#14

Allyl chloride

Concen: 51.985 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

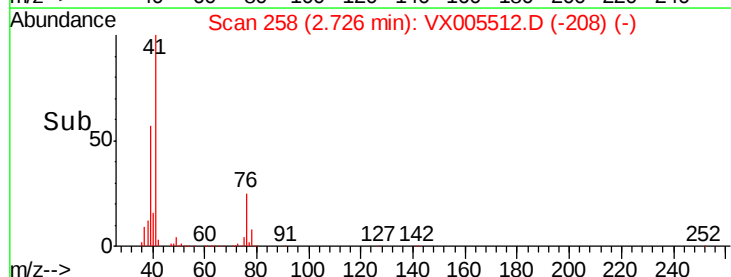
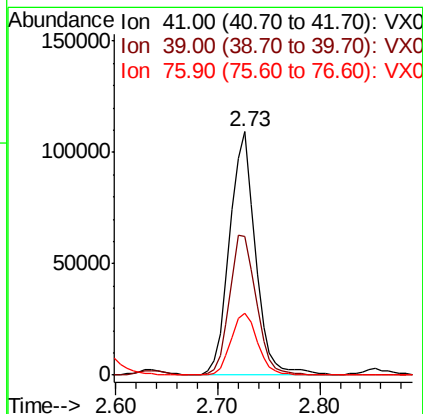
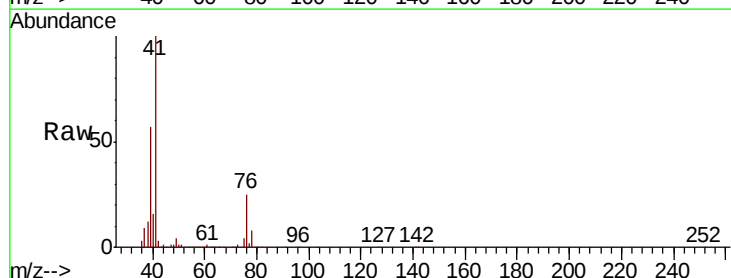
Tgt Ion: 41 Resp: 190943

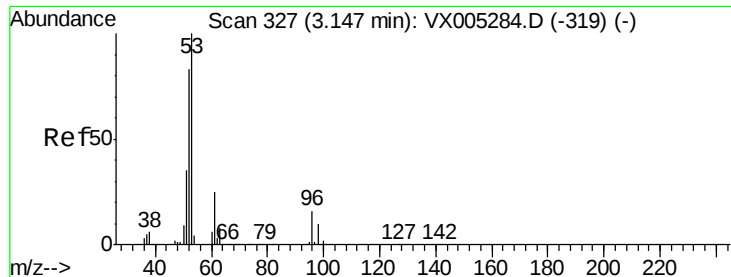
Ion Ratio Lower Upper

41 100

39 59.0 48.9 73.3

76 26.2 26.7 40.1#





#15

Acrylonitrile

Concen: 288.130 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

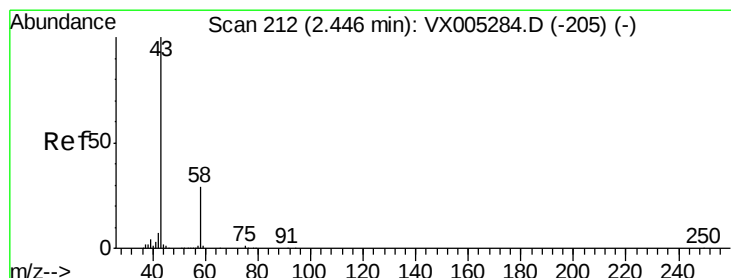
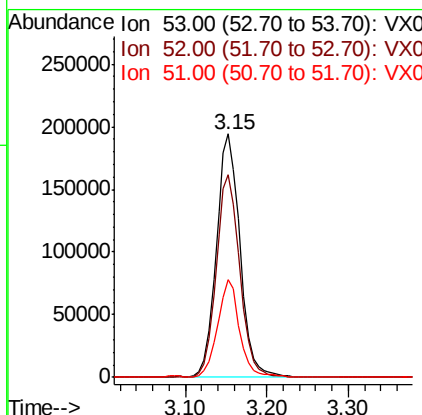
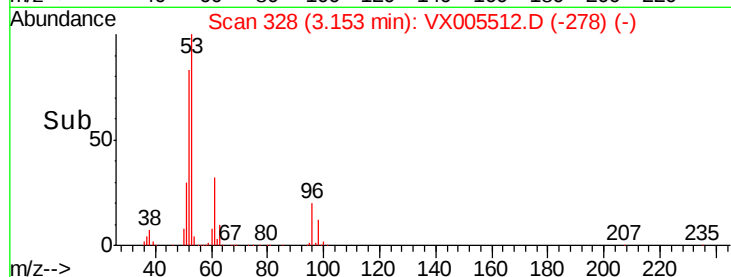
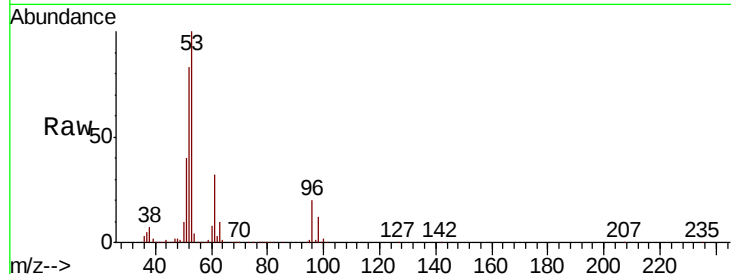
ClientSampleID :

PA-SW-01MSD

Tot Ion:	53	Resp:	390460
Ion Ratio	Lower	Upper	
53	100		
52	83.1	65.2	97.8
51	37.3	28.2	42.2

Manual Integrations
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#16

Acetone

Concen: 305.303 ug/l

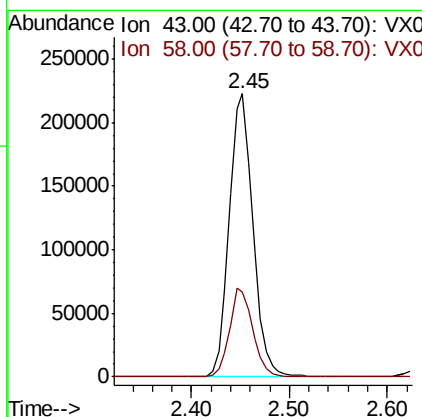
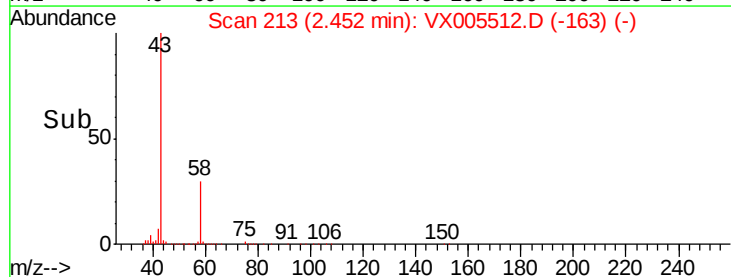
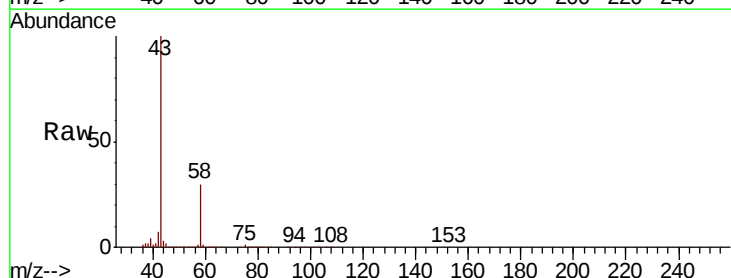
RT: 2.45 min Scan# 213

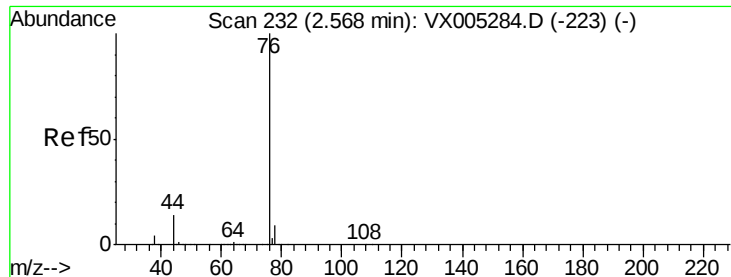
Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	43	Resp:	374227
Ion Ratio	Lower	Upper	
43	100		
58	29.9	26.2	39.4





#17

Carbon Disulfide

Concen: 42.801 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 76 Resp: 216918

Ion Ratio Lower Upper

76 100

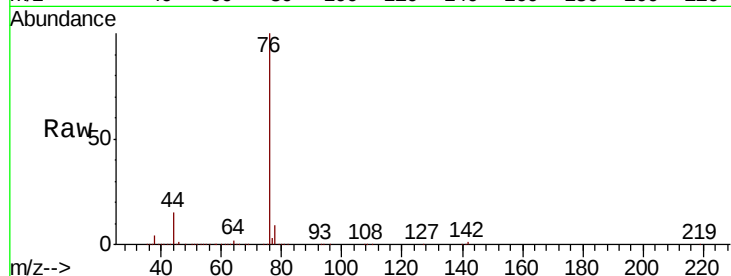
78 8.6 7.0 10.6

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

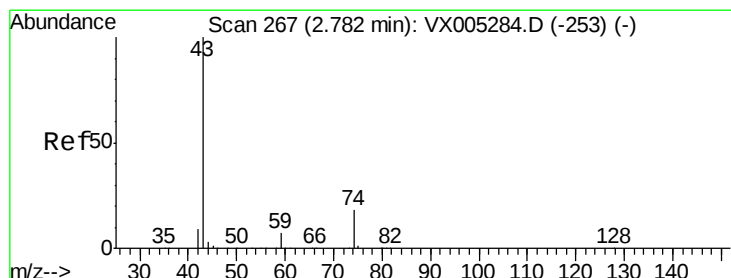
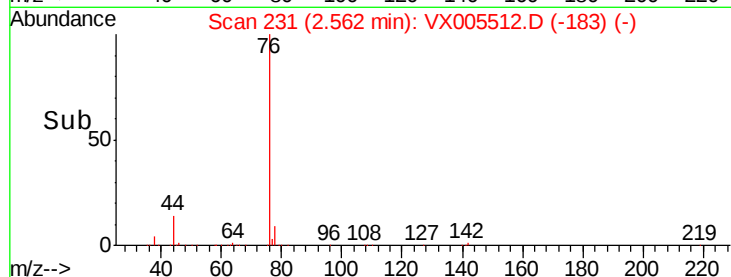
2.56

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 60.925 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005512.D

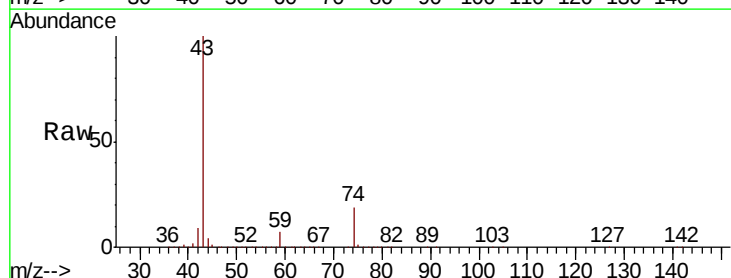
Acq: 23 Oct 2018 10:46

Tgt Ion: 43 Resp: 212460

Ion Ratio Lower Upper

43 100

74 20.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

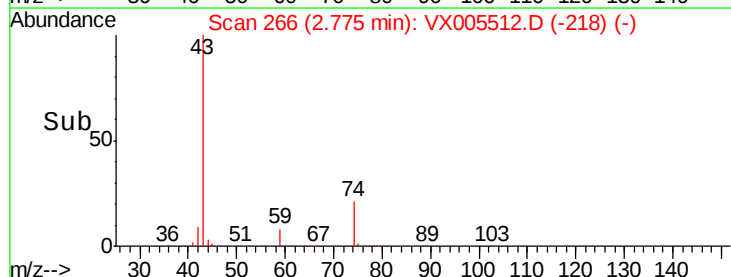
150000

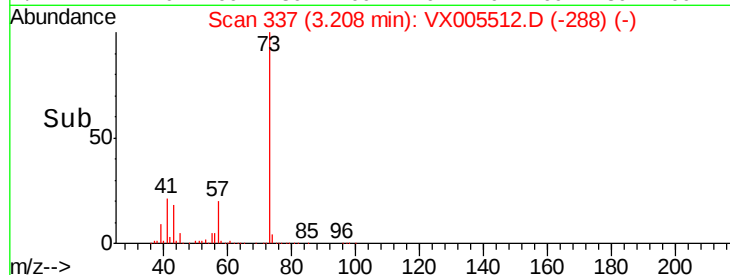
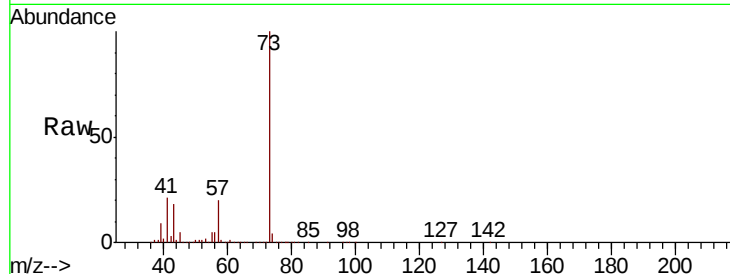
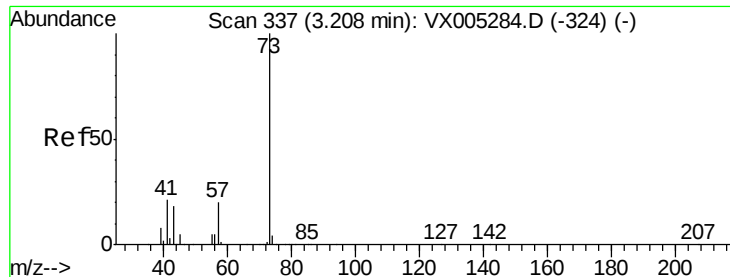
100000

50000

0

Time-->





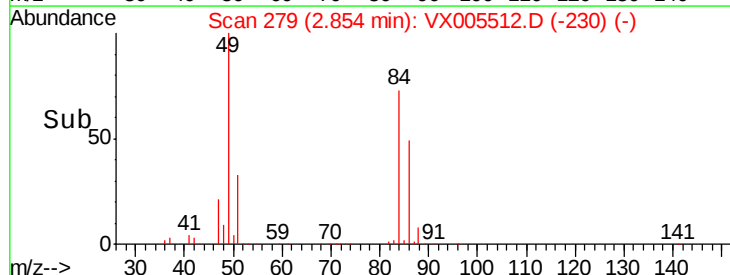
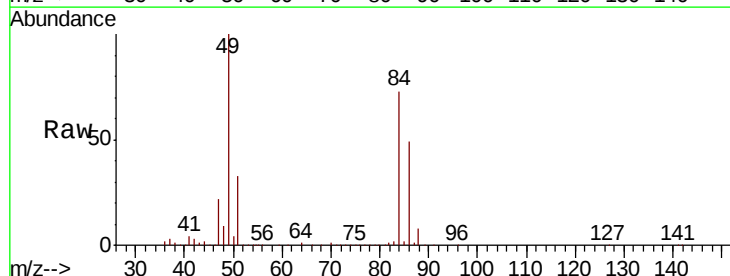
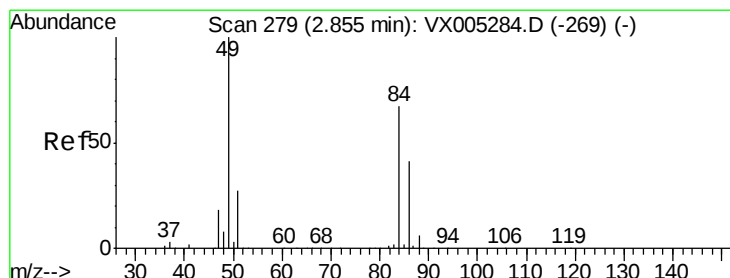
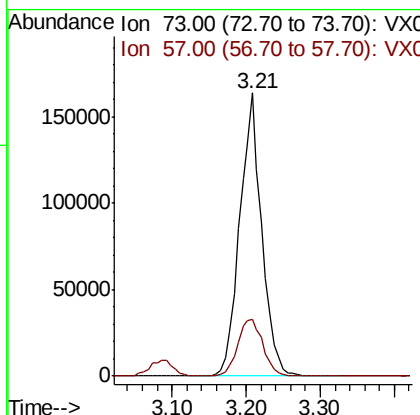
#19
Methyl tert-butyl Ether
Concen: 57.255 ug/l
RT: 3.21 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.1	25.7

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

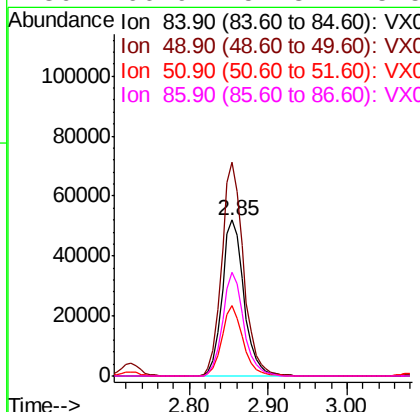
Manual Integrations
APPROVED

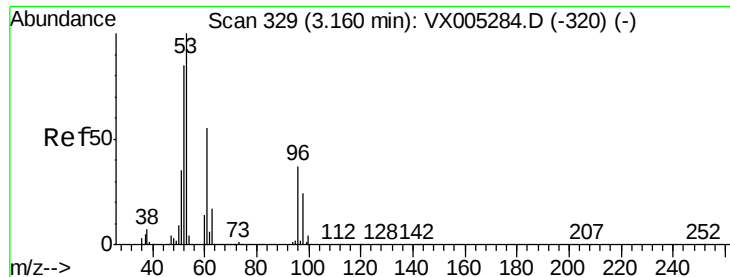
MMDadoda
10/23/2018 1:28:30 PM



#20
Methylene Chloride
Concen: 56.056 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.9	101.2	151.8
51	44.6	29.5	44.3#
86	66.9	52.3	78.5





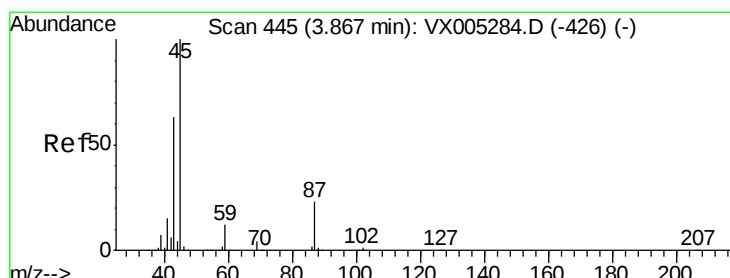
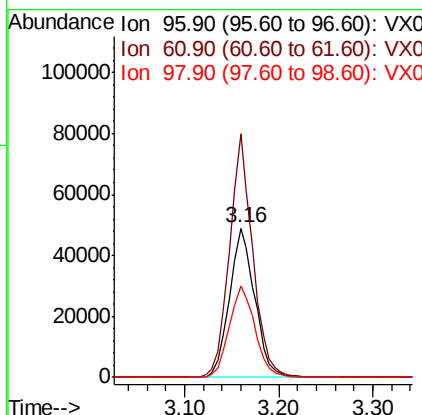
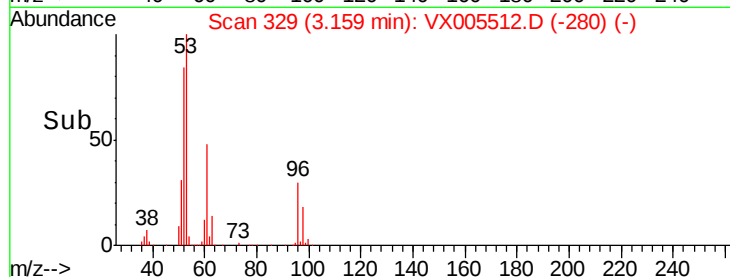
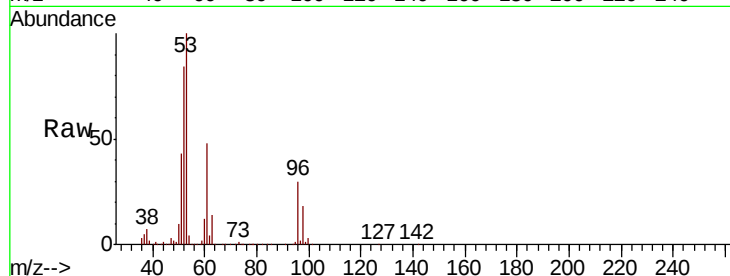
#21
trans-1,2-Dichloroethene
Concen: 49.064 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	162.8	113.8	170.6
98	60.9	51.8	77.8

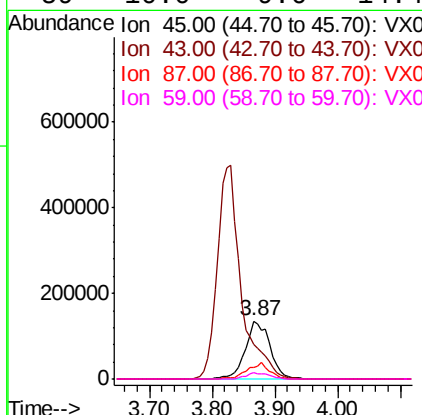
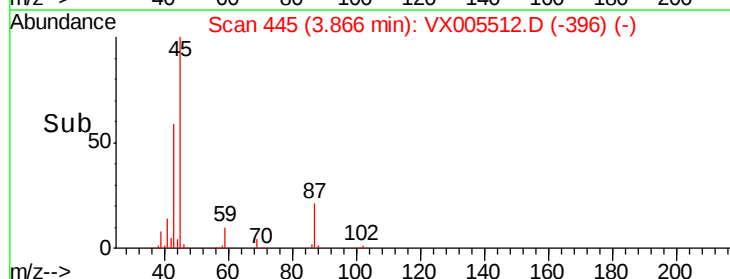
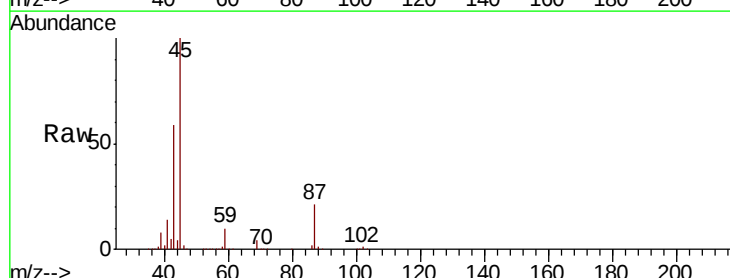
Manual Integrations
APPROVED

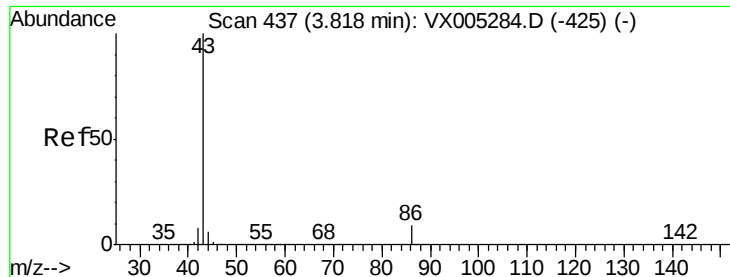
MMDadoda
10/23/2018 1:28:30 PM



#22
Diisopropyl ether
Concen: 59.691 ug/l
RT: 3.87 min Scan# 445
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.7	42.8	64.2
87	21.0	22.6	34.0#
59	10.0	9.6	14.4





#23

Vinyl Acetate

Concen: 243.239 ug/l

RT: 3.83 min Scan# 439

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 43 Resp: 1311616

Ion Ratio Lower Upper

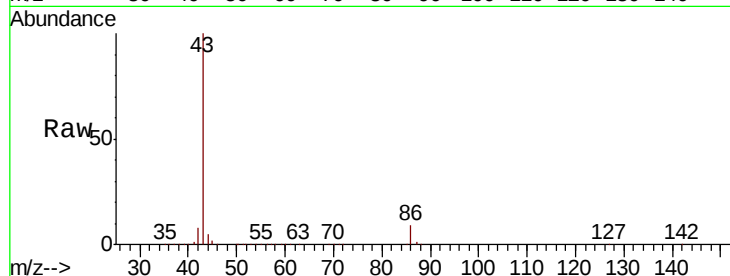
43 100

86 8.6 8.9 13.3#

Manual Integrations
APPROVED

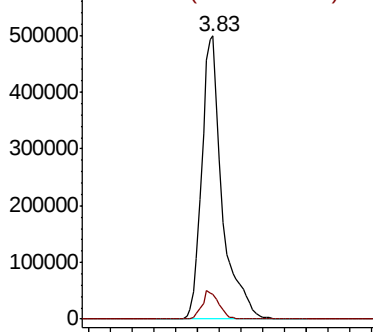
MMDadoda

10/23/2018 1:28:30 PM

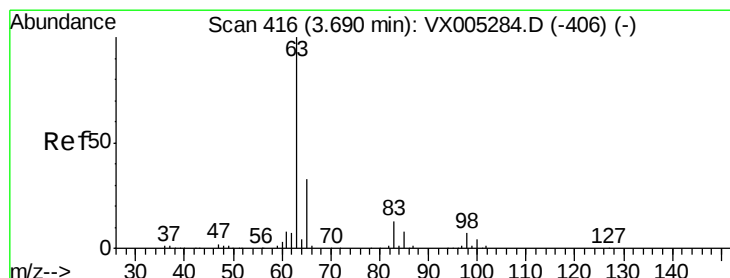
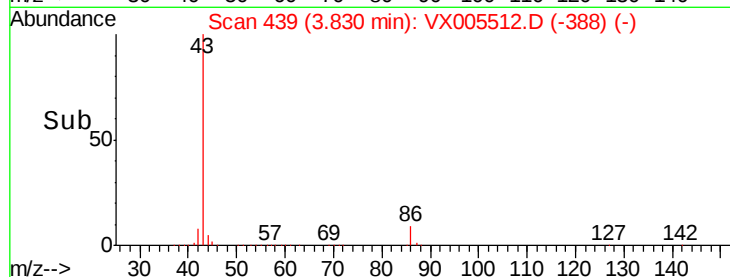


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



Time-->



#24

1,1-Dichloroethane

Concen: 52.689 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

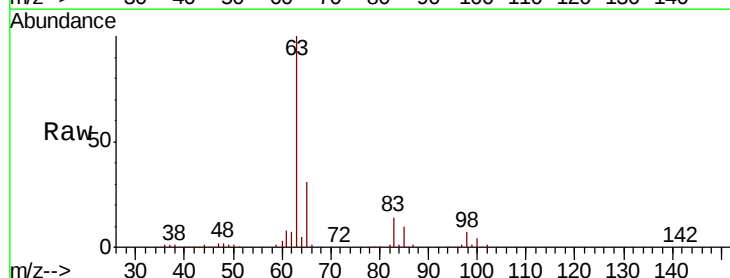
Tgt Ion: 63 Resp: 186298

Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

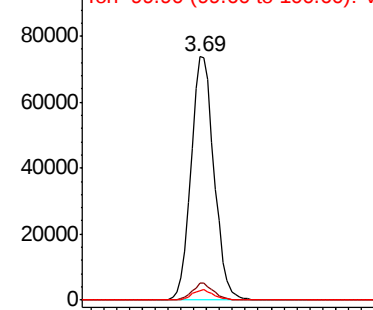
100 4.0 2.4 7.1



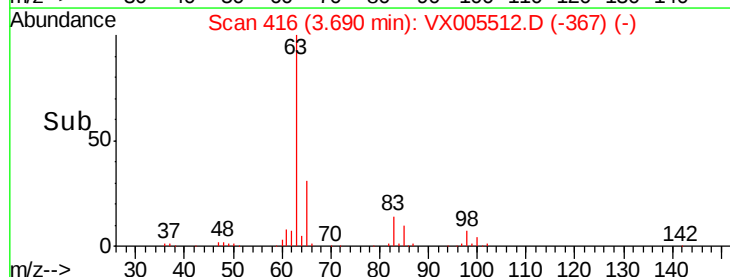
Abundance Ion 62.90 (62.60 to 63.60): VX0

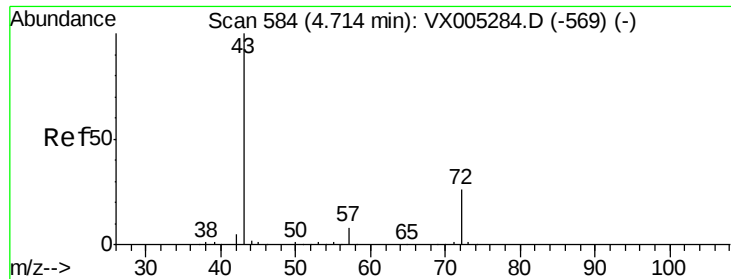
Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



Time-->





#25

2-Butanone

Concen: 308.558 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 43 Resp: 553375

Ion Ratio Lower Upper

43 100

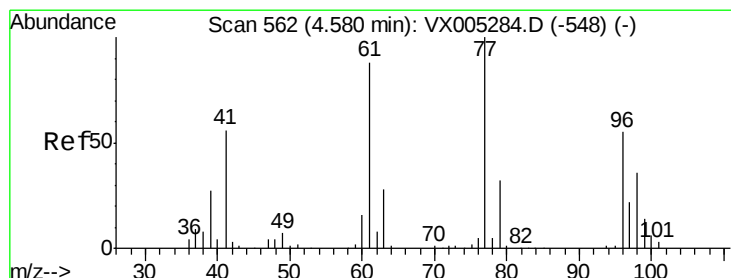
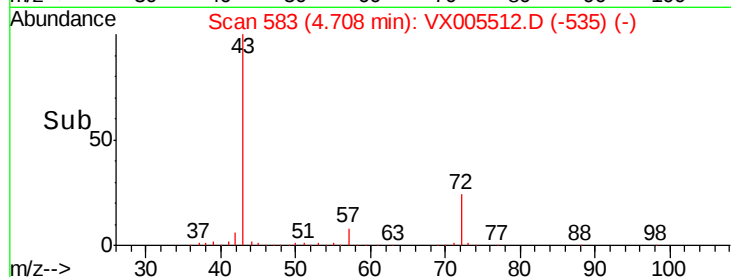
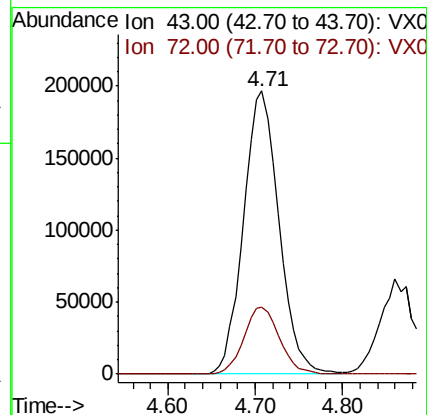
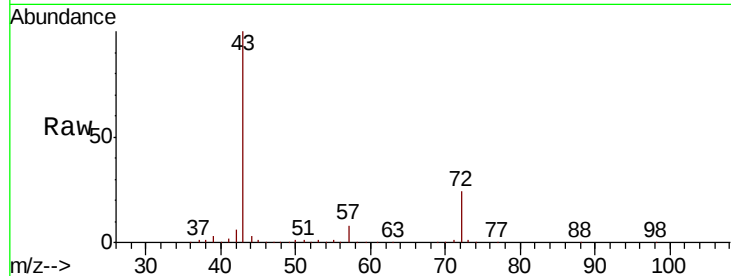
72 23.8 22.0 33.0

Manual Integrations

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10/23/2018 1:28:30 PM



#26

2,2-Dichloropropane

Concen: 29.979 ug/l

RT: 4.57 min Scan# 561

Delta R.T. -0.01 min

Lab File: VX005512.D

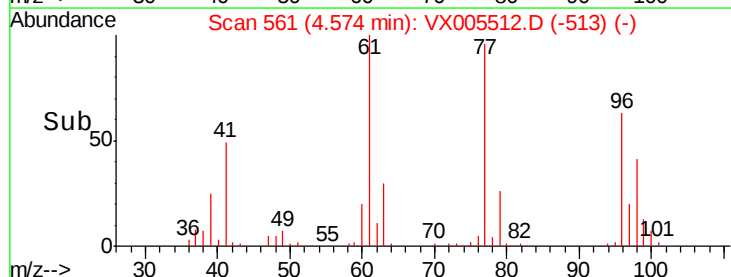
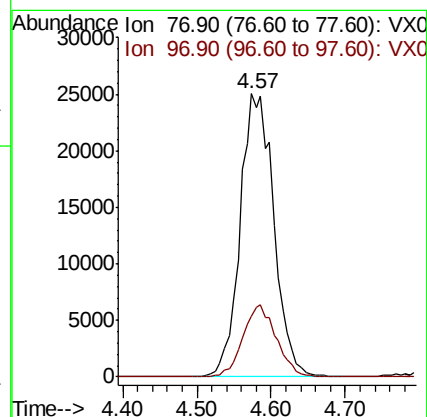
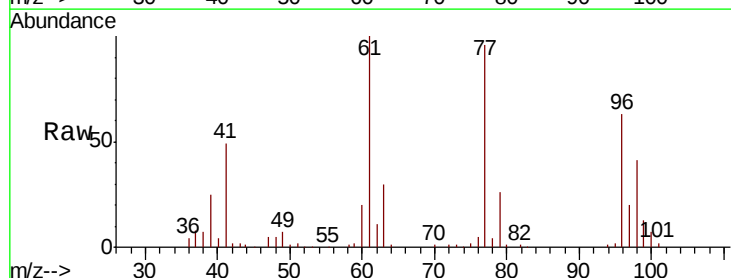
Acq: 23 Oct 2018 10:46

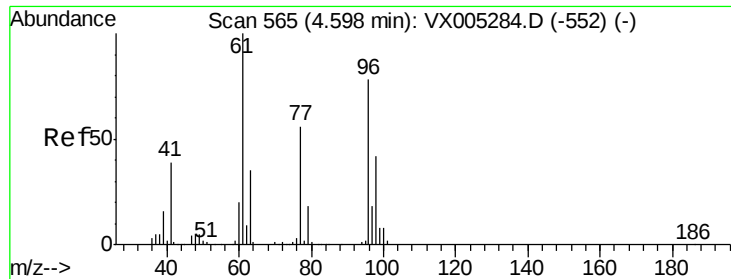
Tgt Ion: 77 Resp: 79274

Ion Ratio Lower Upper

77 100

97 25.1 11.7 35.0





#27

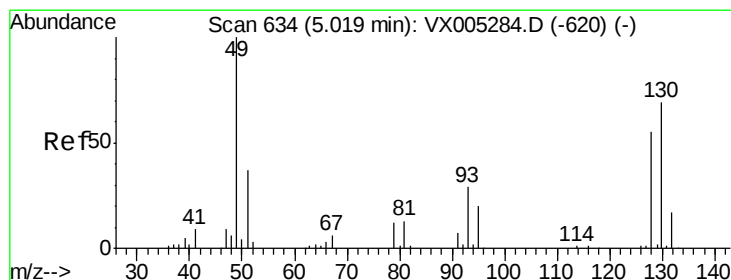
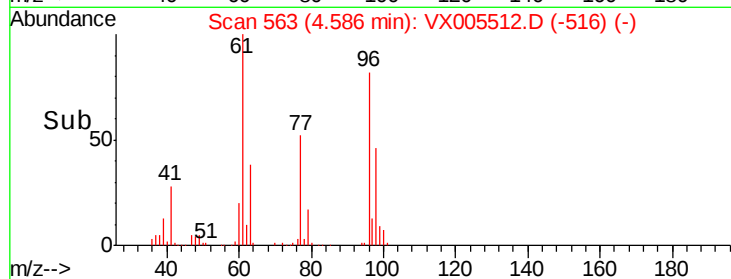
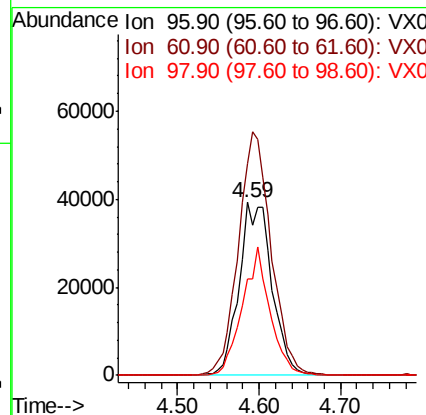
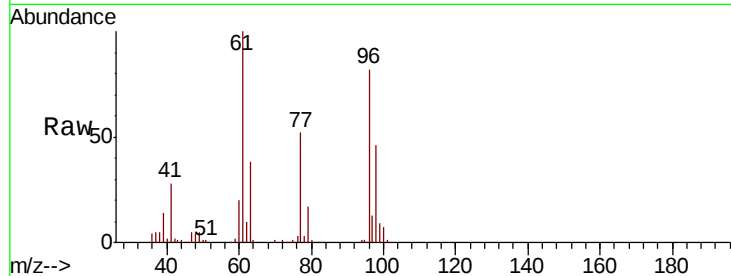
cis-1,2-Dichloroethene
 Concen: 54.081 ug/l
 RT: 4.59 min Scan# 563
 Delta R.T. -0.01 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Instrument :
 MSVOA_X
 ClientSampleId :
 PA-SW-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	140.9	0.0	282.6	
98	62.5	0.0	130.2	

Manual Integrations
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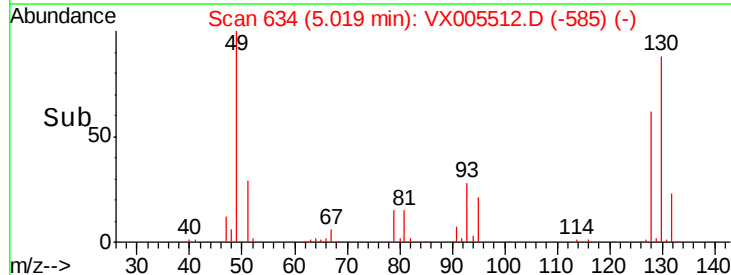
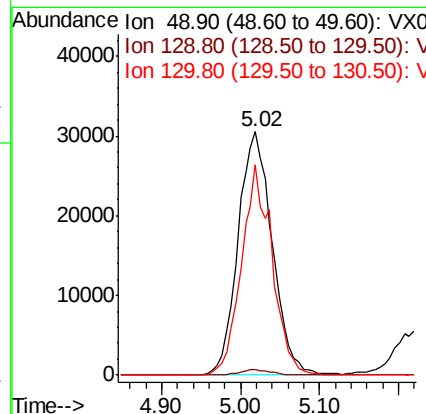
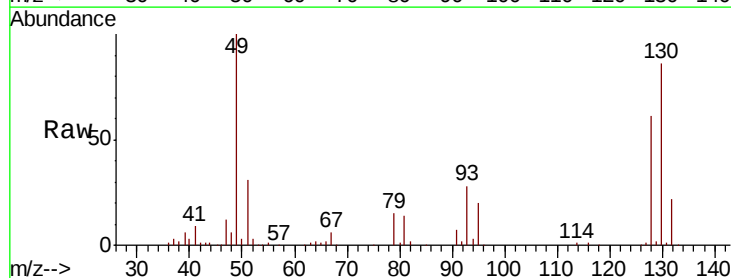
MMDadoda
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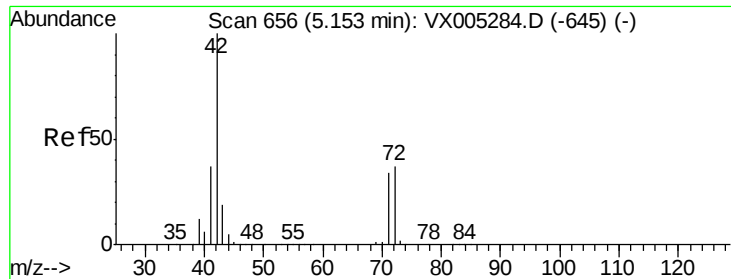


#28

Bromochloromethane
 Concen: 57.022 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.2	
130	77.3	67.5	101.3	





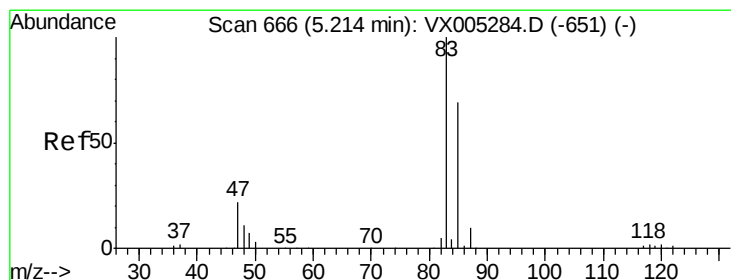
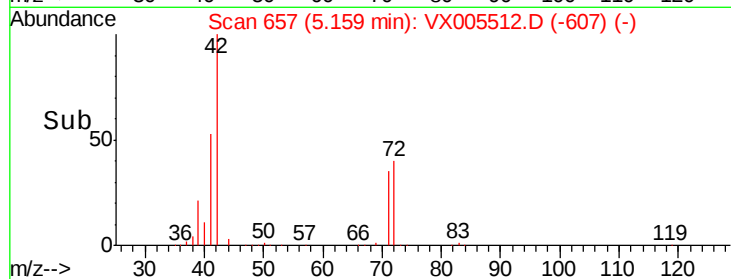
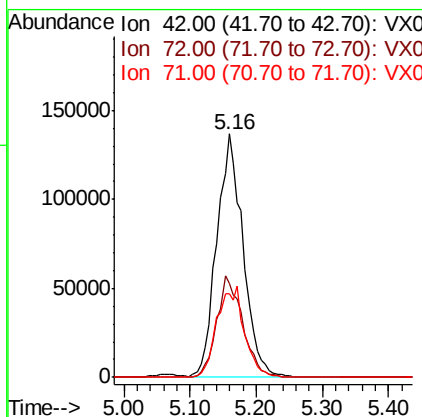
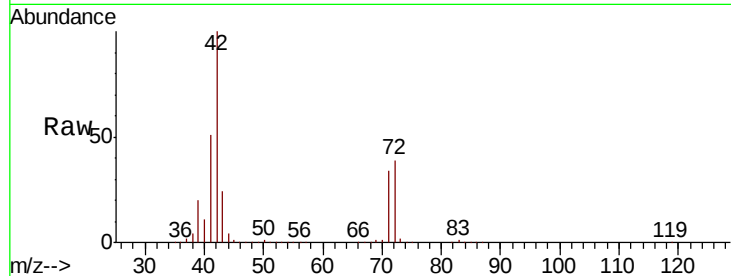
#29
Tetrahydrofuran
Concen: 327.493 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	37.4	56.0
71	39.2	34.5	51.7

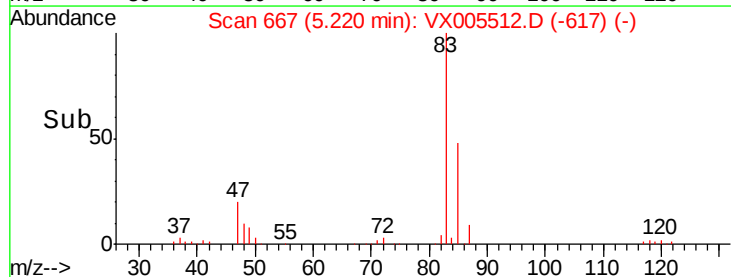
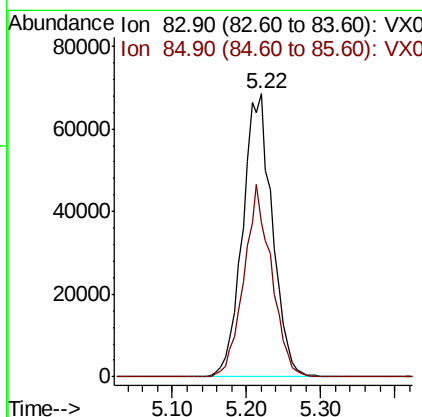
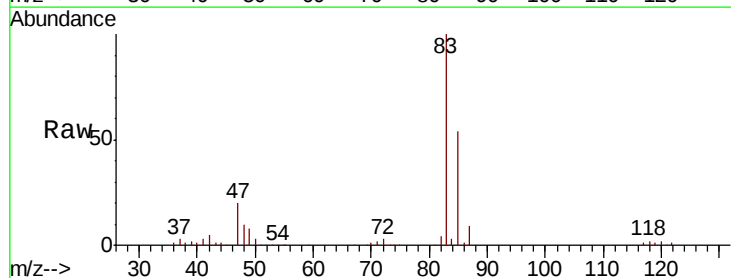
Manual Integrations
APPROVED

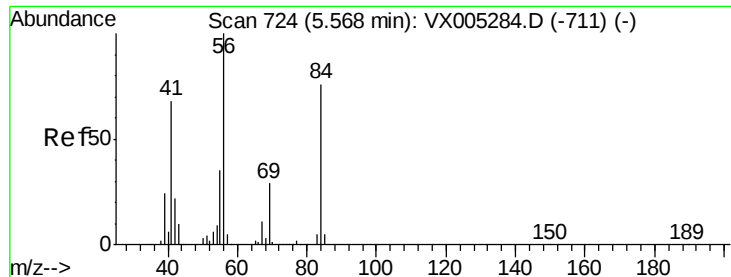
MMDadoda
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#30
Chloroform
Concen: 58.359 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.3	52.6	79.0





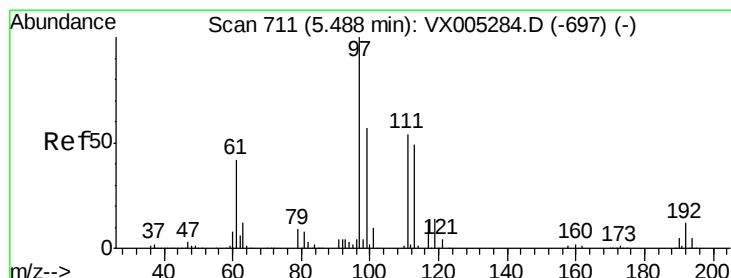
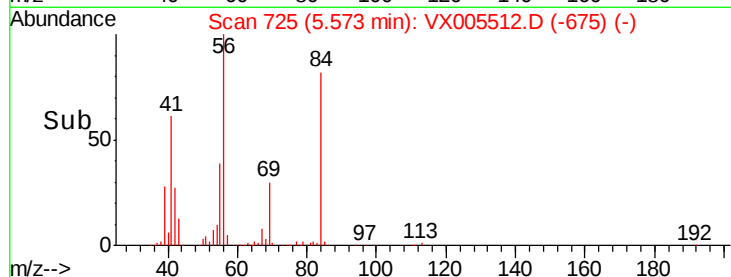
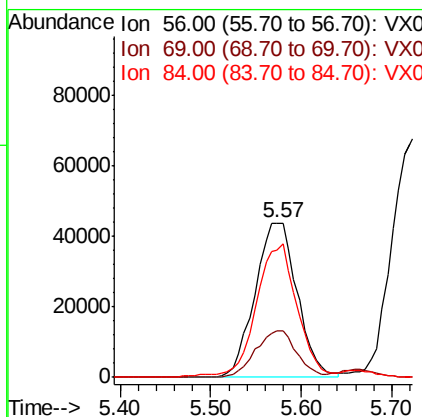
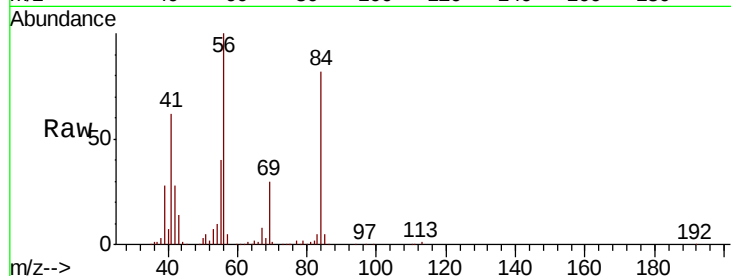
#31
Cyclohexane
Concen: 48.571 ug/l
RT: 5.57 min Scan# 725
Delta R.T. 0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.2	25.4	38.2
84	80.8	71.4	107.2

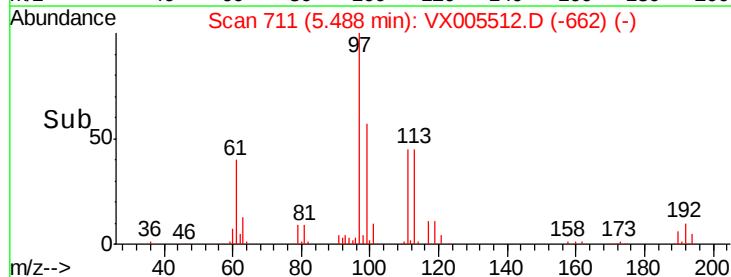
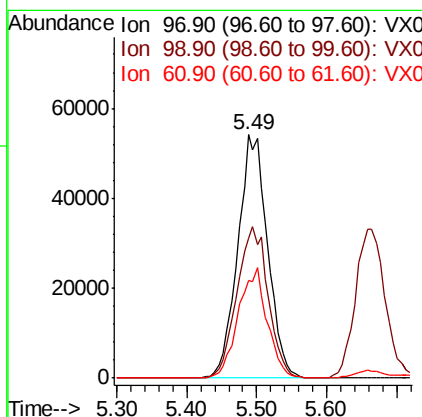
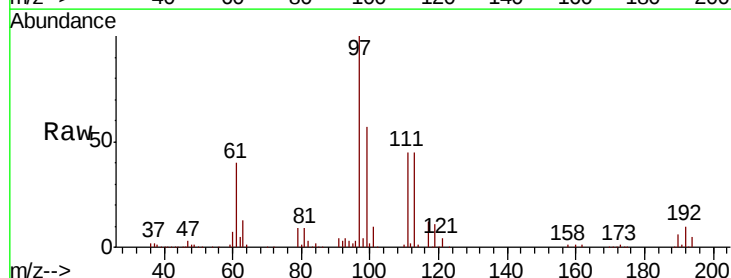
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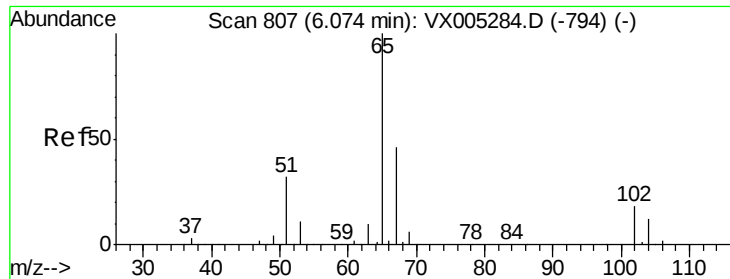
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 56.088 ug/l
RT: 5.49 min Scan# 711
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.0	78.0
61	44.3	34.9	52.3





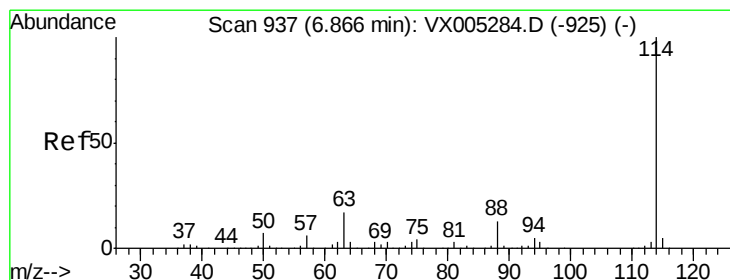
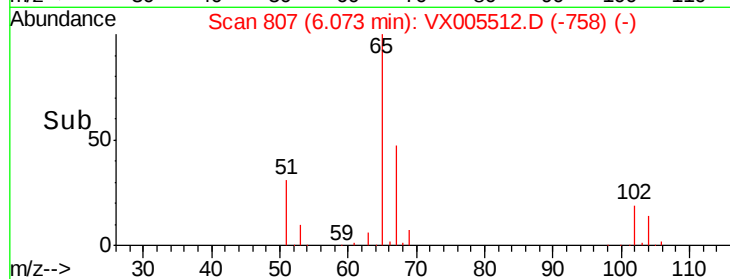
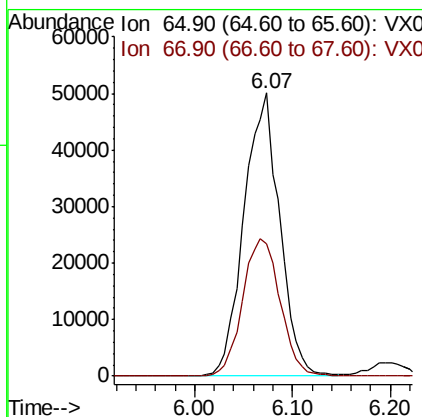
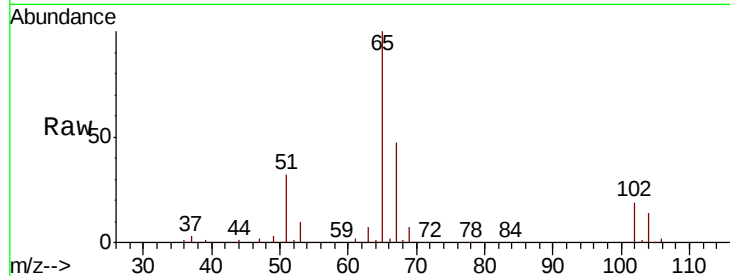
#33
 1,2-Dichloroethane-d4
 Concen: 59.728 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Instrument :
 MSVOA_X
 ClientSampleId :
 PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	106.8

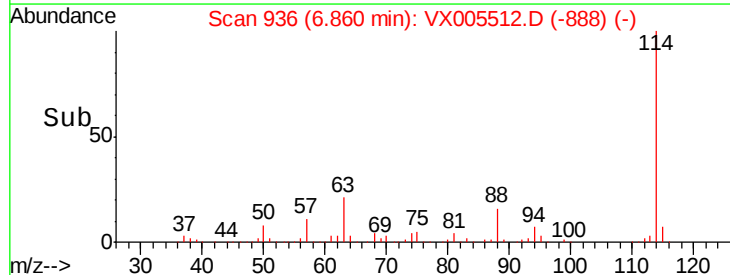
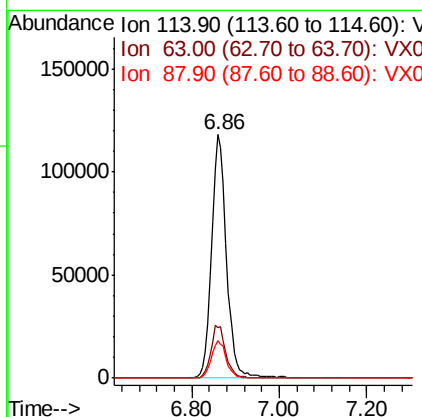
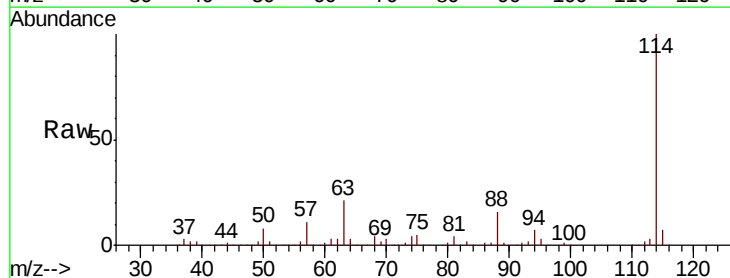
Manual Integrations
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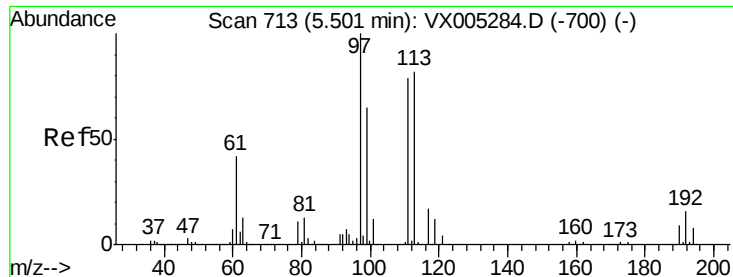
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	39.0
88	15.5	0.0	30.4





#35

Dibromofluoromethane

Concen: 53.195 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

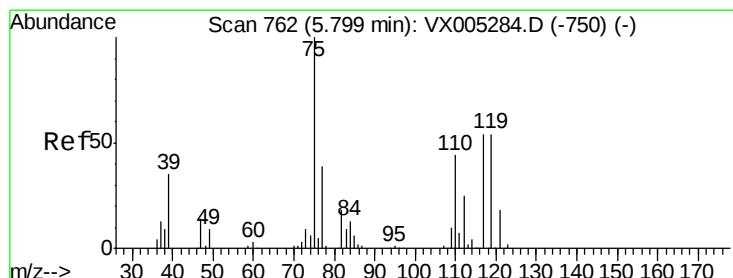
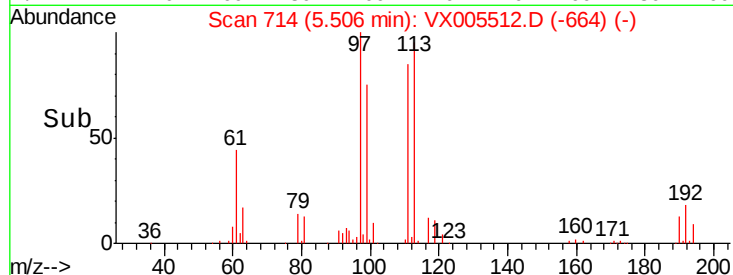
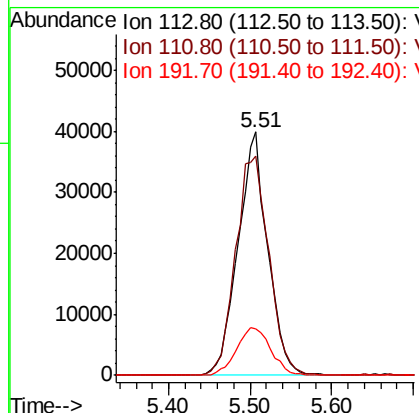
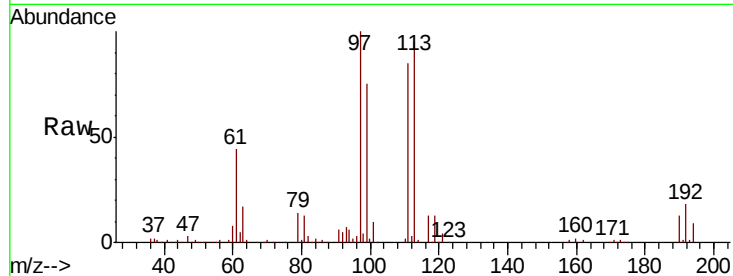
ClientSampleId :

PA-SW-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	100330		
111	101.1	82.4	123.6	
192	22.6	19.4	29.2	

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 45.509 ug/l

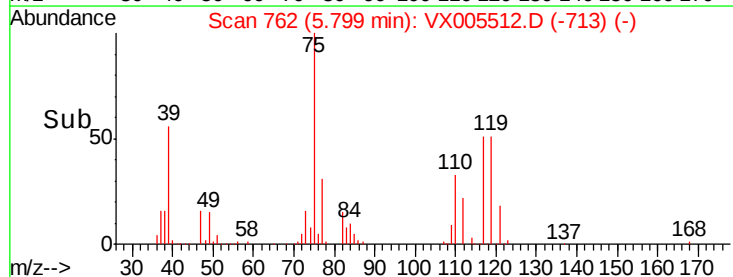
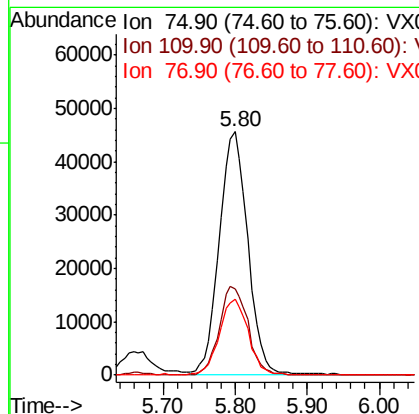
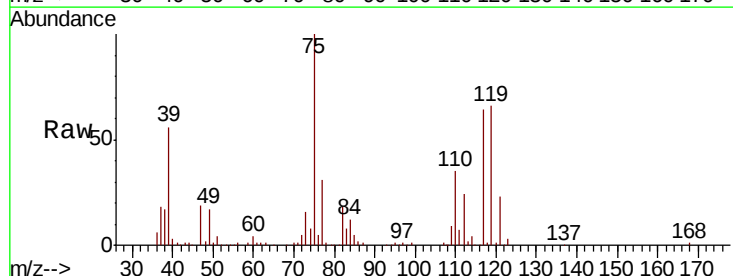
RT: 5.80 min Scan# 762

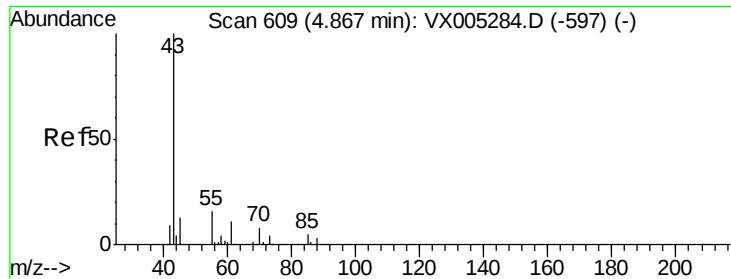
Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	125511		
110	36.5	18.0	54.0	
77	31.3	24.6	36.8	





#37

Ethyl Acetate

Concen: 51.118 ug/l

RT: 4.86 min Scan# 608

Delta R.T. -0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

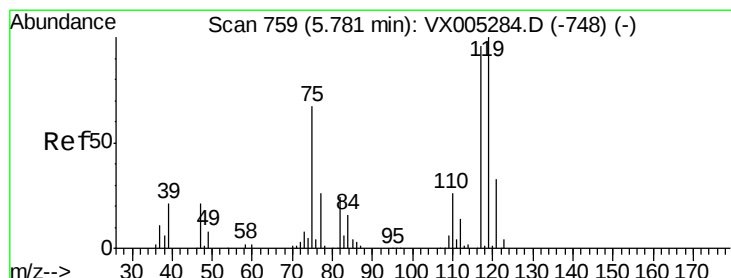
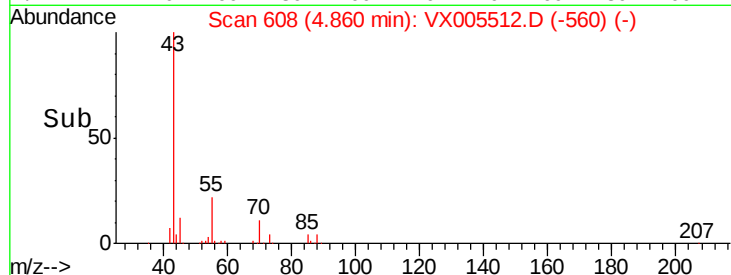
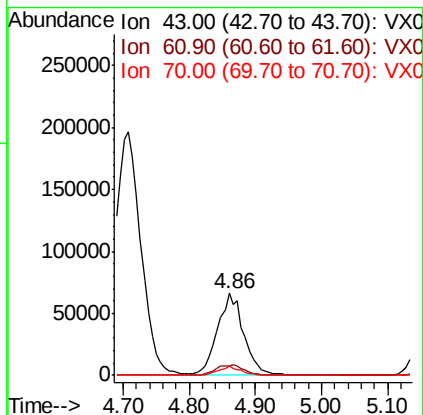
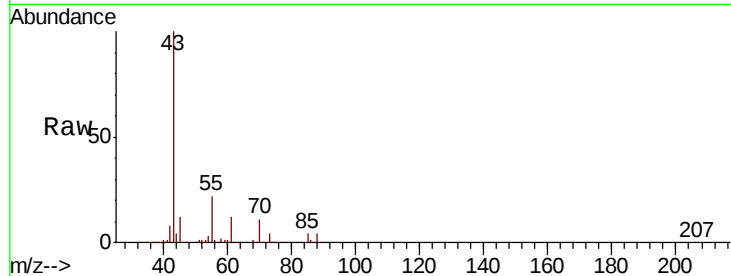
ClientSampleId :

PA-SW-01MSD

Tot Ion:	43	Resp:	181305
Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.5	17.3
70	9.9	9.0	13.6

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 48.988 ug/l

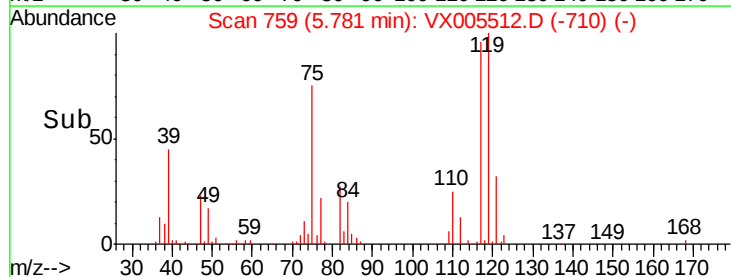
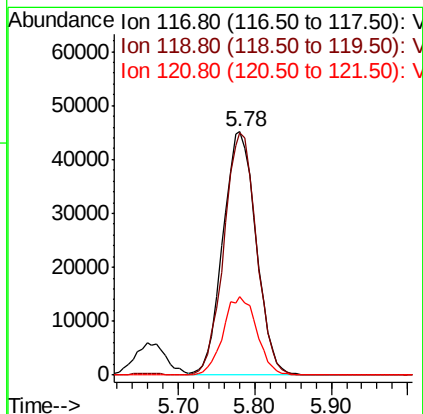
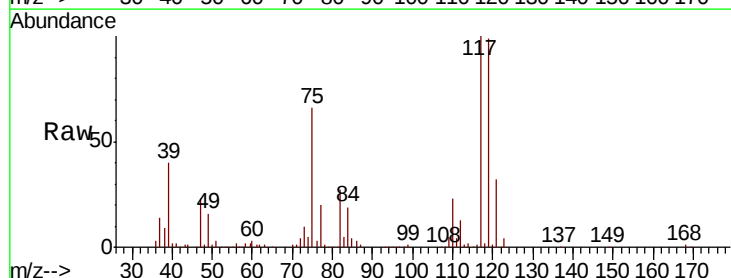
RT: 5.78 min Scan# 759

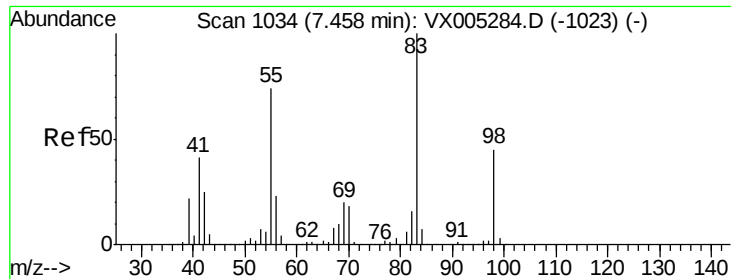
Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	117	Resp:	135753
Ion	Ratio	Lower	Upper
117	100		
119	99.5	78.8	118.2
121	32.5	24.9	37.3





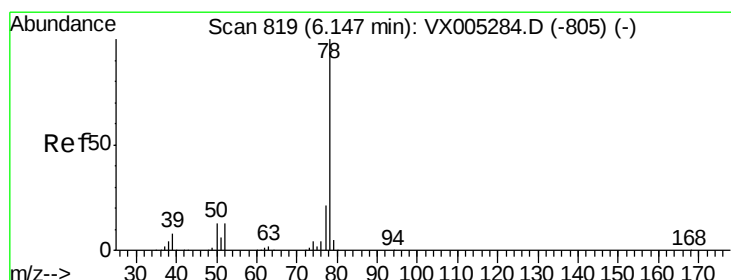
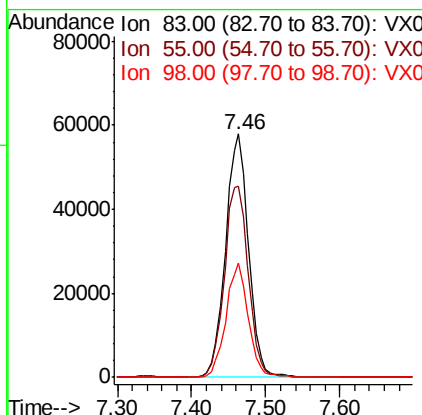
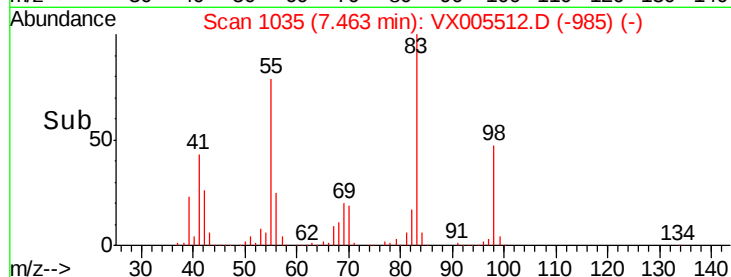
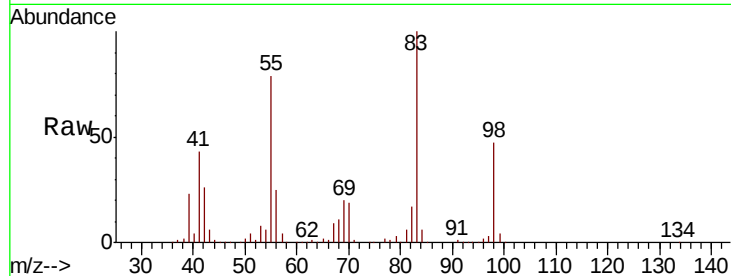
#39
Methylvlcyclohexane
Concen: 41.991 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	78.6	61.0	91.4	
98	46.8	39.6	59.4	

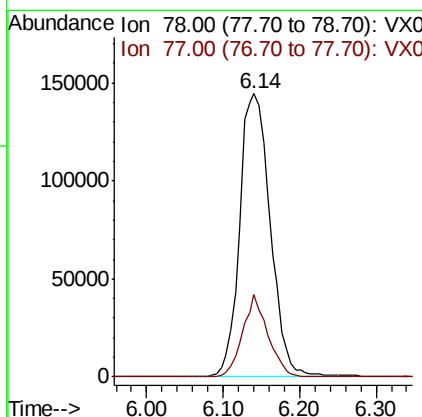
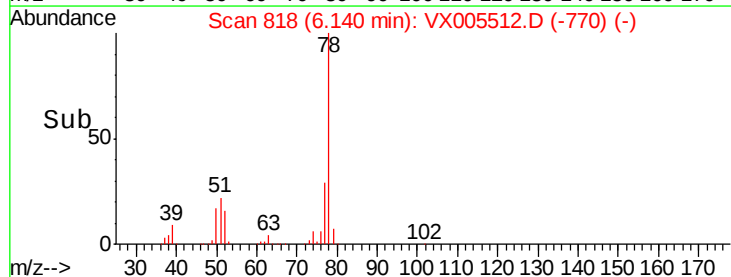
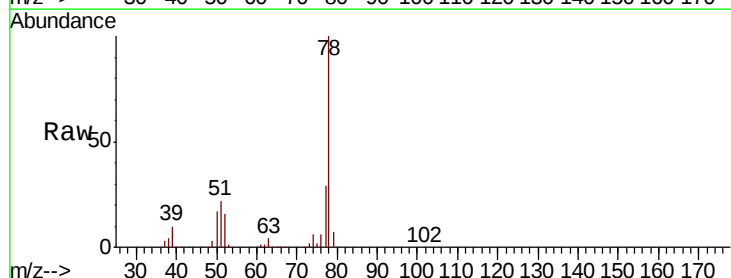
Manual Integrations
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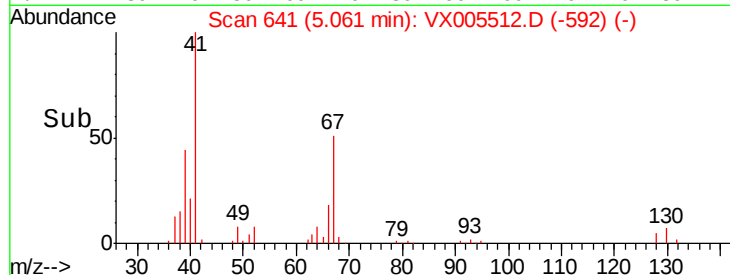
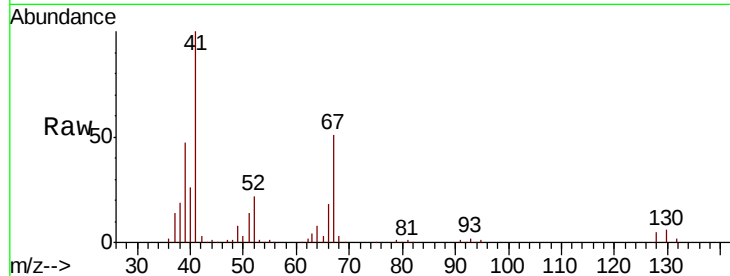
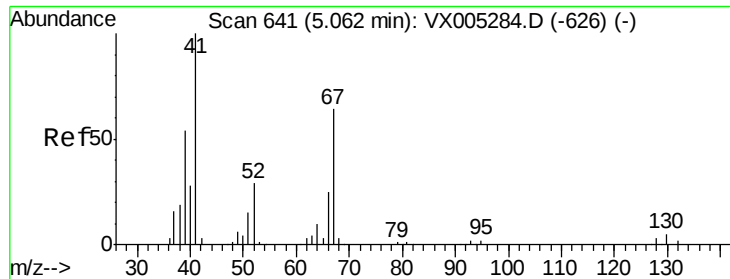
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#40
Benzene
Concen: 48.472 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	29.2	19.0	28.4	





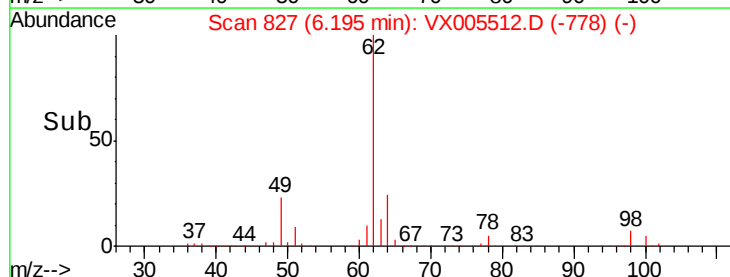
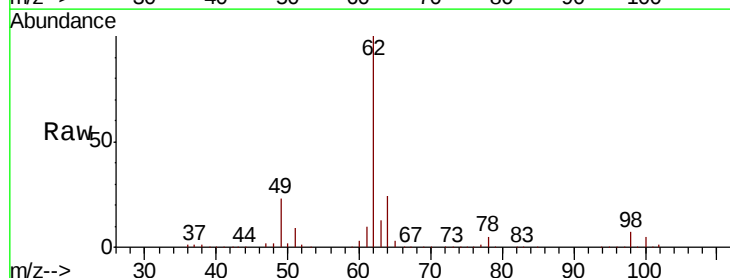
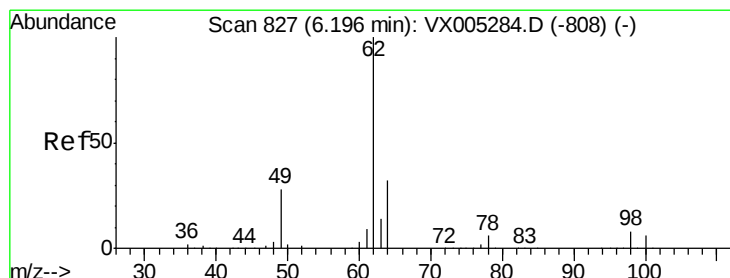
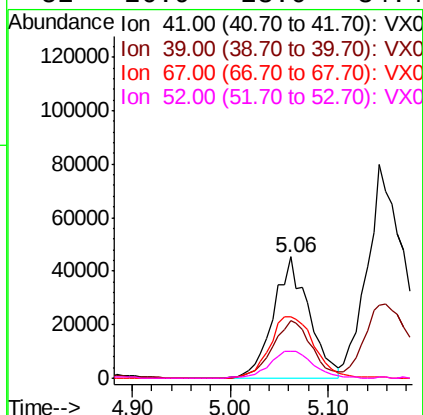
#41
Methacrylonitrile
Concen: 60.227 ug/l
RT: 5.06 min Scan# 641
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		114520		
39	52.1	42.4	63.6		
67	63.7	59.2	88.8		
52	26.9	23.0	34.4		

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

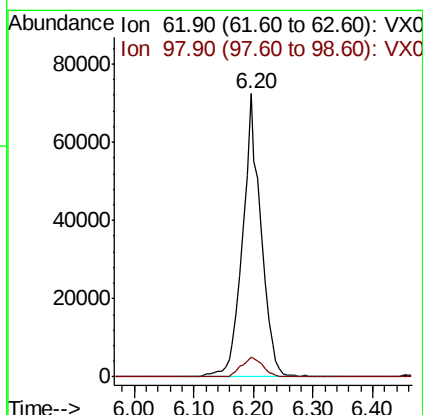
Manual Integrations
APPROVED

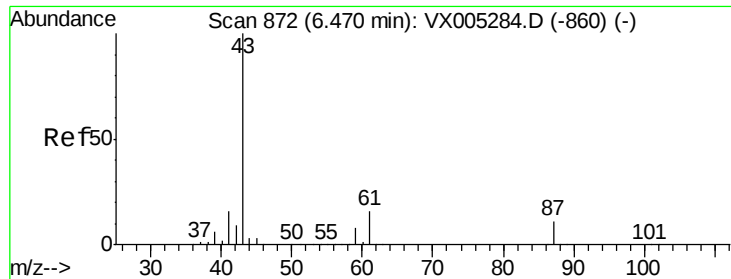
MMDadoda
10/23/2018 1:28:30 PM



#42
1,2-Dichloroethane
Concen: 53.039 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		154944		
98	8.0	0.0	20.6		





#43

Isopropyl Acetate

Concen: 58.263 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

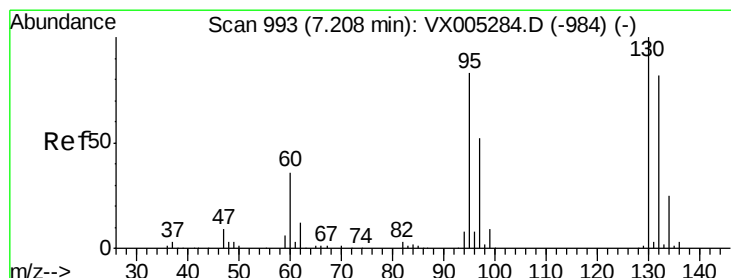
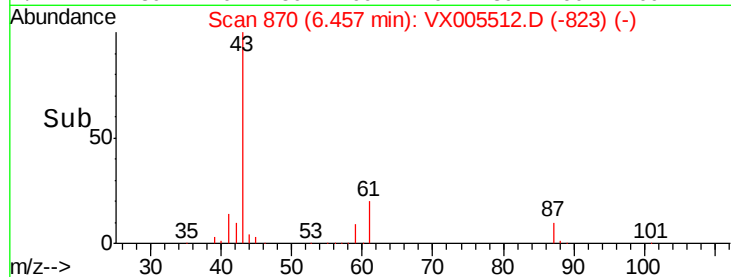
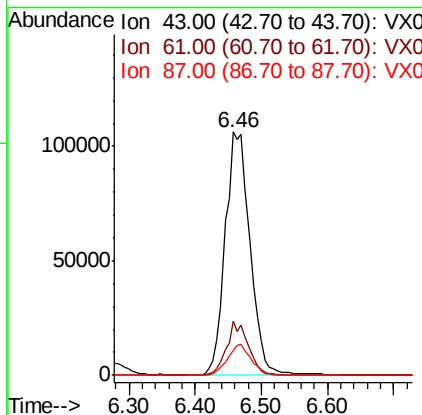
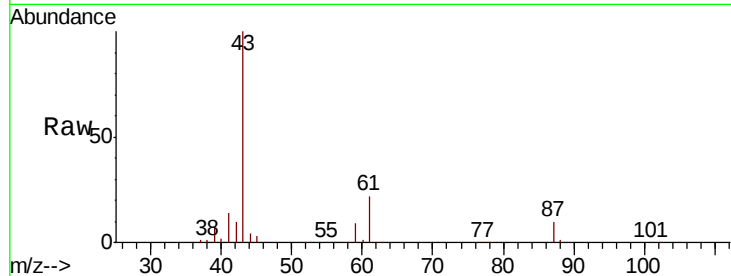
ClientSampleId :

PA-SW-01MSD

Tot Ion:	43	Resp:	275272
Ion	Ratio	Lower	Upper
43	100		
61	19.5	17.0	25.4
87	12.0	11.4	17.2

Manual Integrations
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#44

Trichloroethene

Concen: 50.849 ug/l

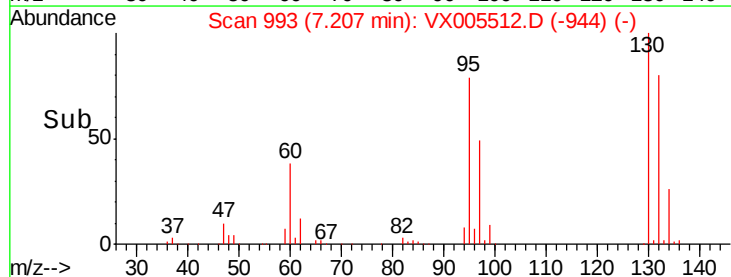
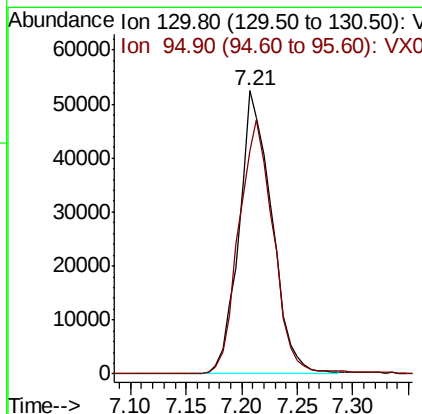
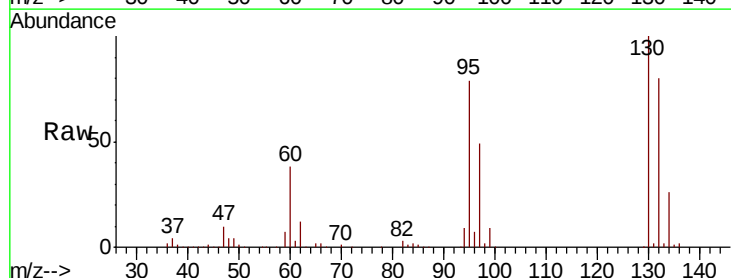
RT: 7.21 min Scan# 993

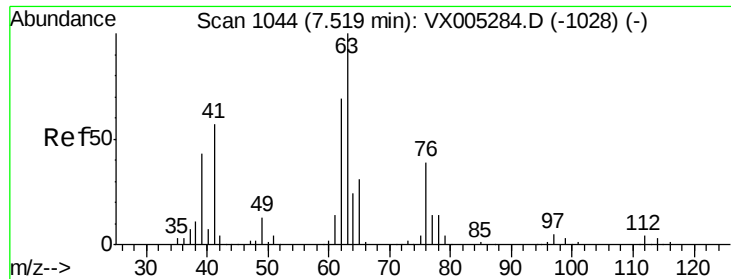
Delta R.T. 0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	130	Resp:	107393
Ion	Ratio	Lower	Upper
130	100		
95	79.1	0.0	181.6





#45

1,2-Dichloropropane

Concen: 51.408 ug/l

RT: 7.52 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 63 Resp: 104329

Ion Ratio Lower Upper

63 100

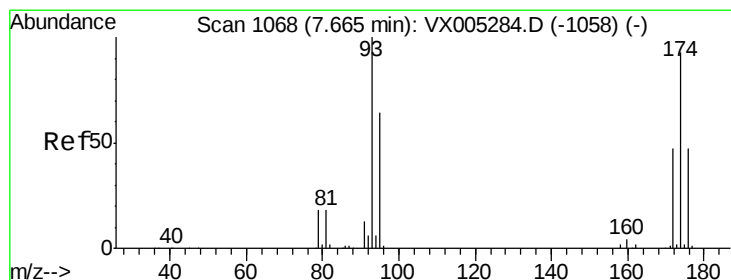
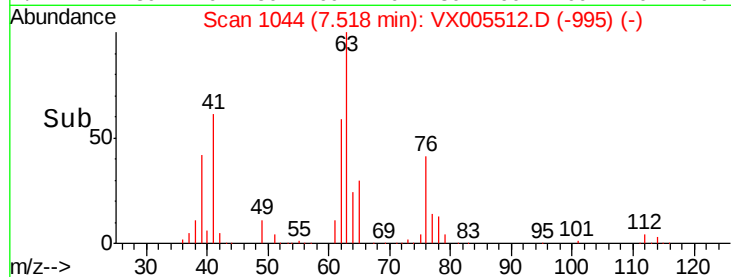
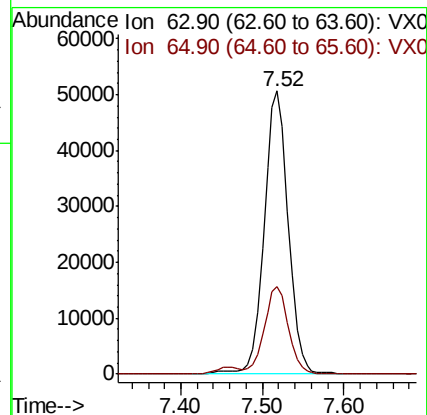
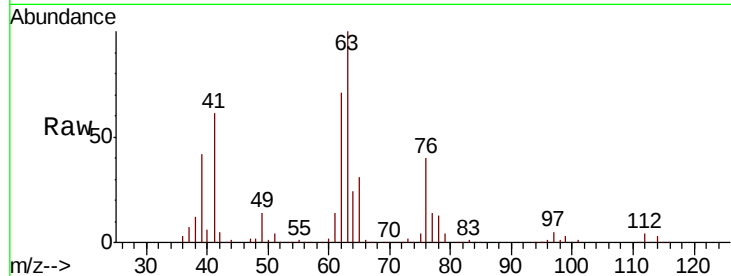
65 31.0 24.3 36.5

Manual Integrations

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#46

Dibromomethane

Concen: 51.097 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

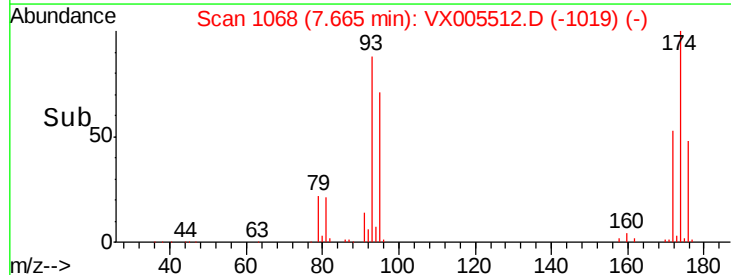
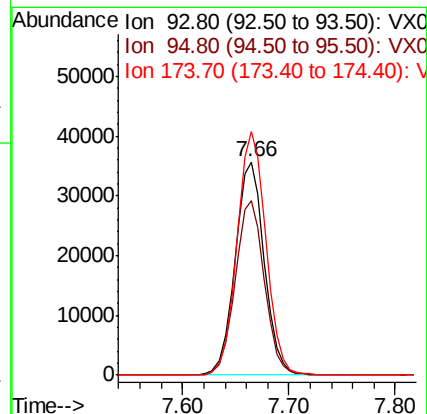
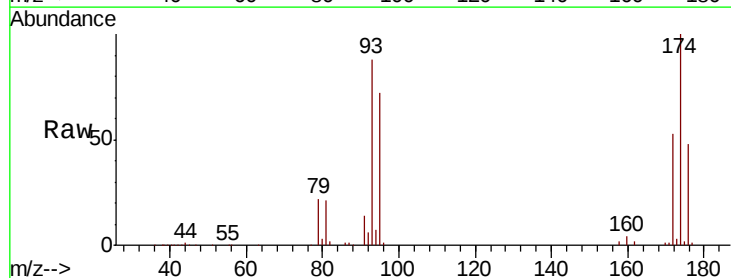
Tgt Ion: 93 Resp: 68442

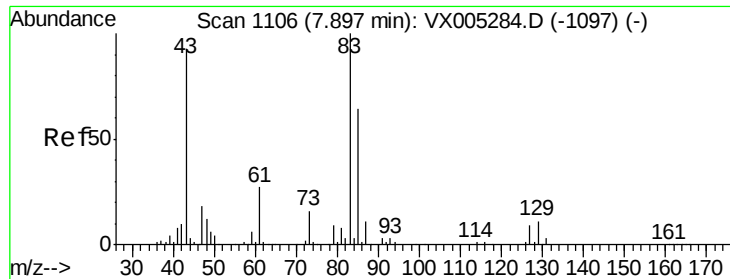
Ion Ratio Lower Upper

93 100

95 82.0 65.5 98.3

174 113.9 94.2 141.4





#47

Bromodichloromethane

Concen: 53.597 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

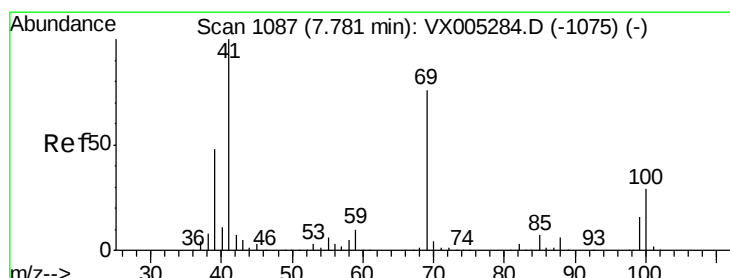
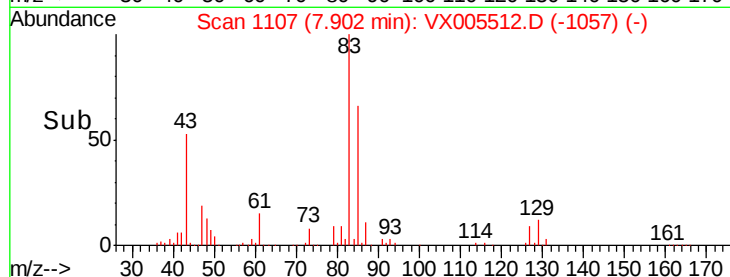
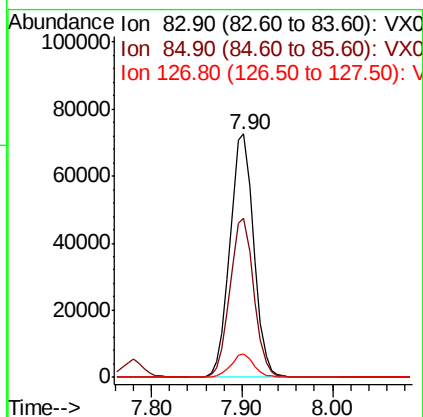
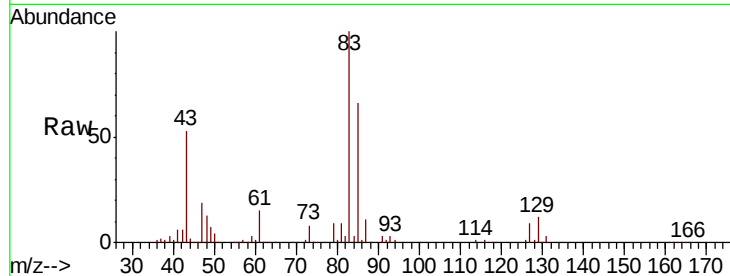
ClientSampleId :

PA-SW-01MSD

Tot Ion:	83	Resp:	132790
Ion Ratio	Lower	Upper	
83	100		
85	65.6	50.9	76.3
127	9.4	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 59.645 ug/l

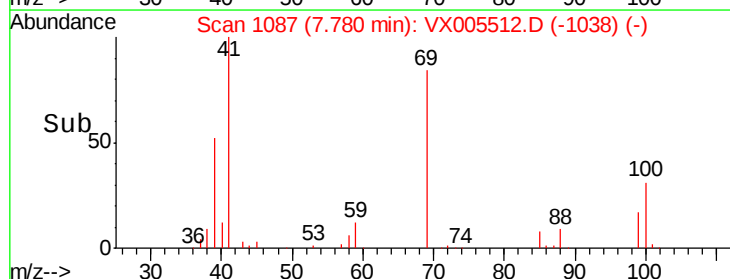
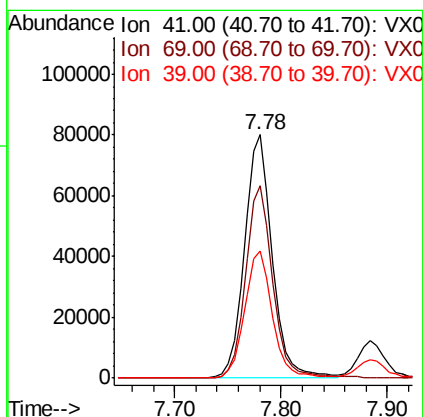
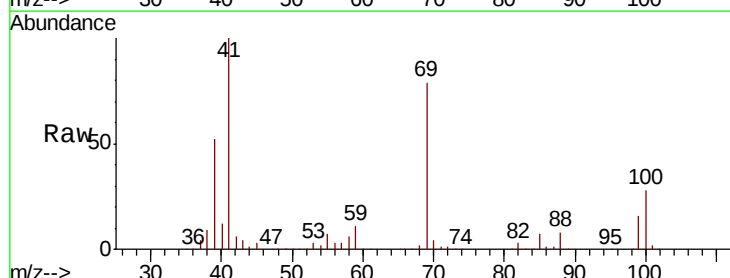
RT: 7.78 min Scan# 1087

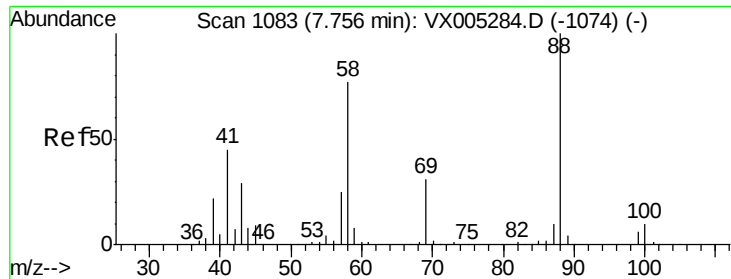
Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	41	Resp:	146156
Ion Ratio	Lower	Upper	
41	100		
69	78.2	70.2	105.4
39	52.1	42.7	64.1





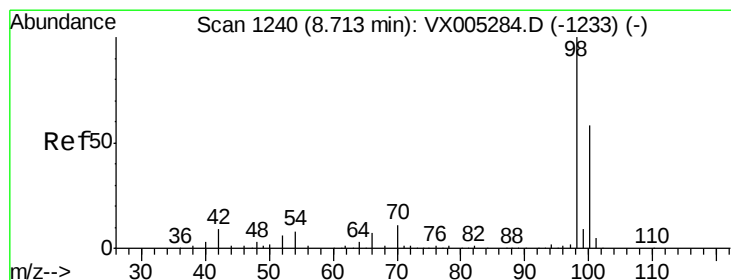
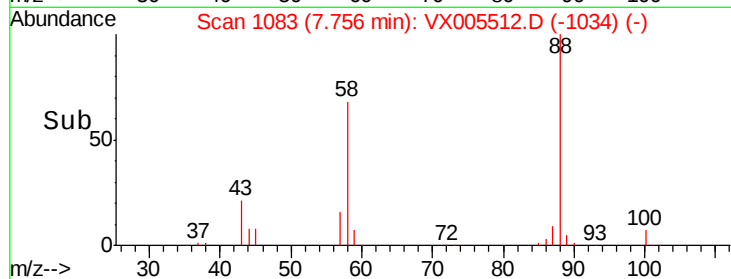
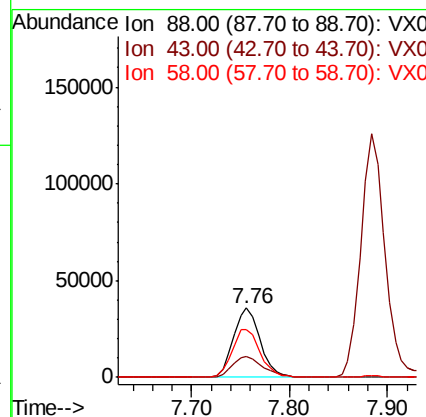
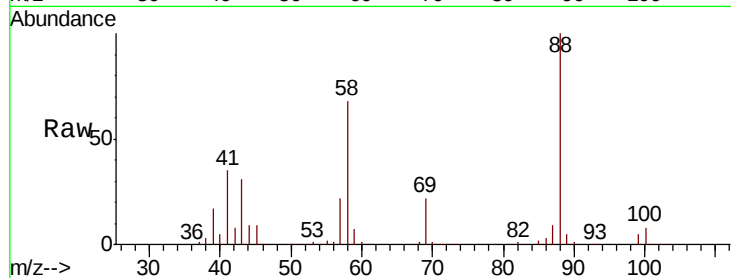
#49
 1,4-Dioxane
 Concen: 1199.501 ug/l
 RT: 7.76 min Scan# 1083
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Instrument :
 MSVOA_X
 ClientSampleId :
 PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.8	24.7	37.1
58	72.8	55.3	82.9

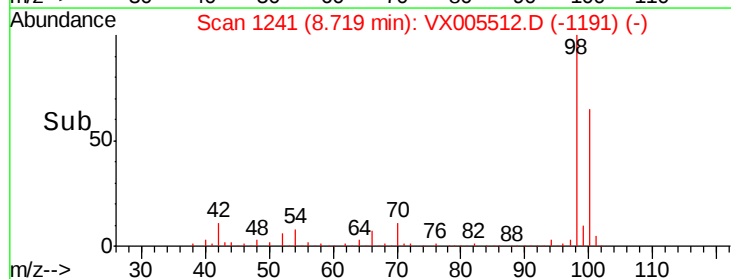
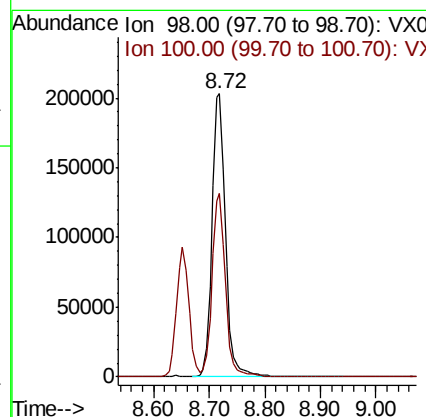
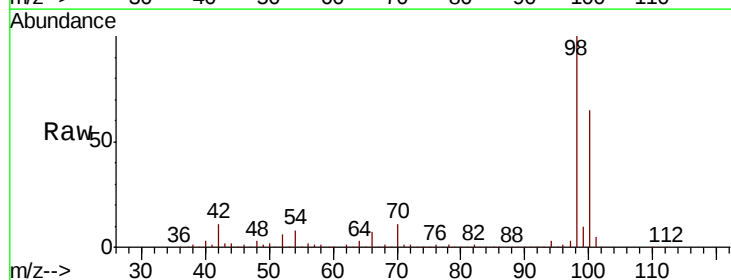
Manual Integrations
 APPROVED

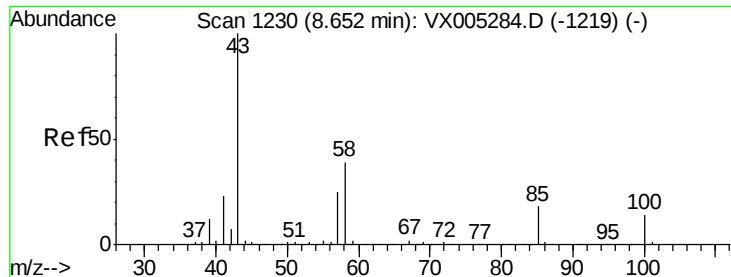
MMDadoda
 10/23/2018 1:28:30 PM



#50
 Toluene-d8
 Concen: 53.442 ug/l
 RT: 8.72 min Scan# 1241
 Delta R.T. 0.01 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.9	79.3





#51

4-Methyl-2-Pentanone

Concen: 324.987 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 43 Resp: 1063175

Ion Ratio Lower Upper

43 100

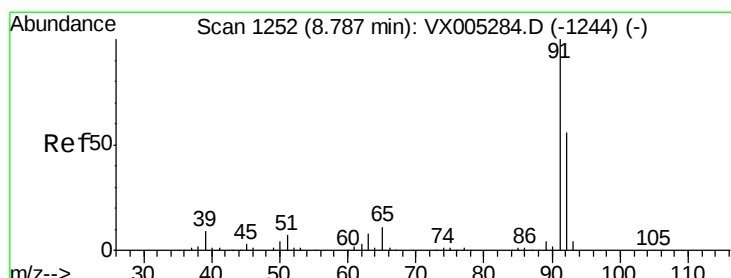
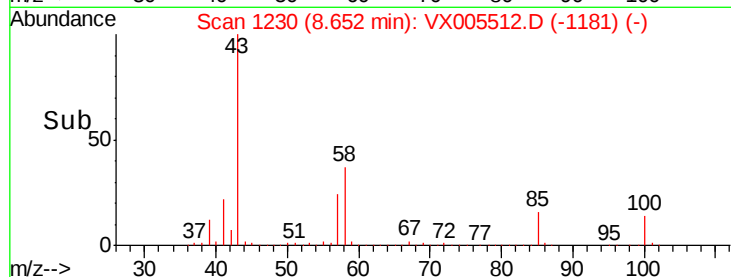
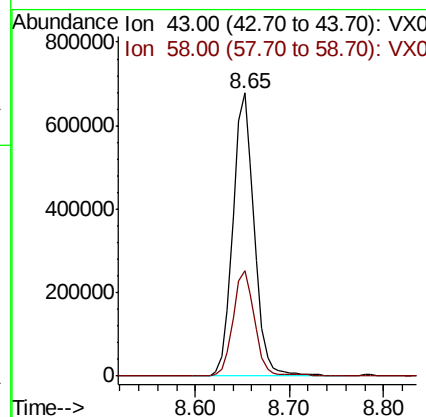
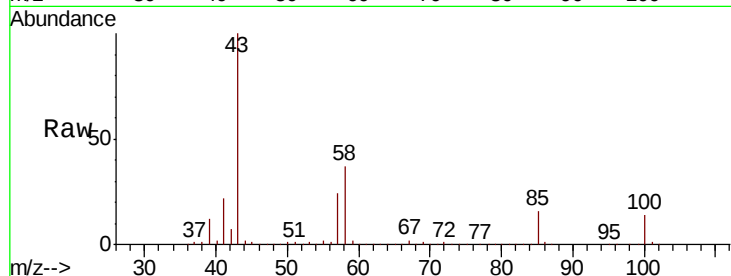
58 37.8 33.1 49.7

Manual Integrations

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#52

Toluene

Concen: 52.331 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005512.D

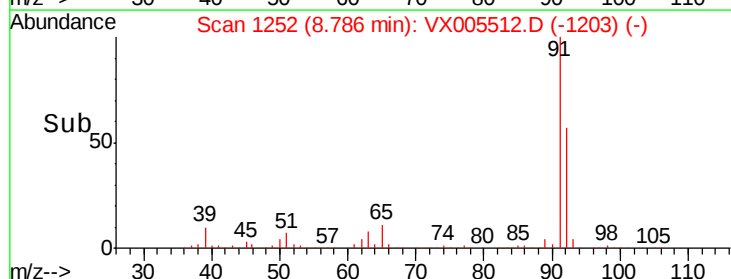
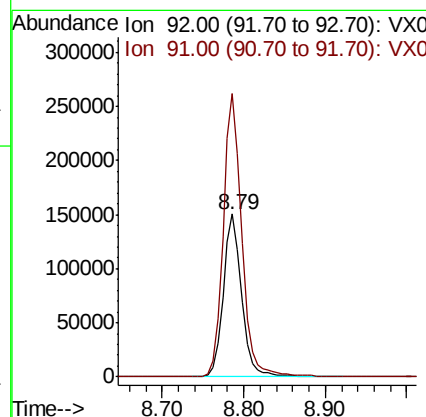
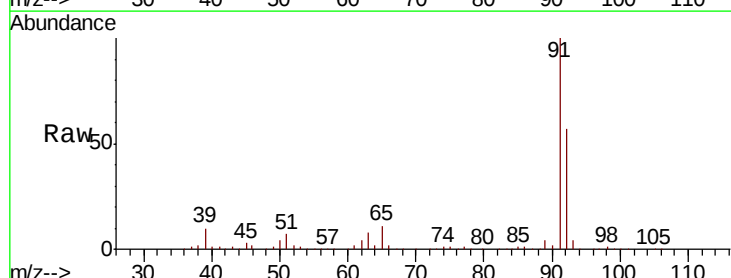
Acq: 23 Oct 2018 10:46

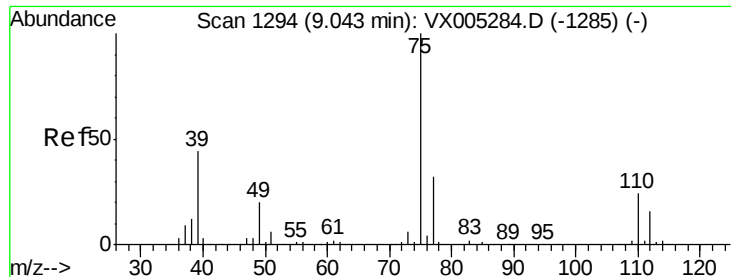
Tgt Ion: 92 Resp: 236861

Ion Ratio Lower Upper

92 100

91 176.2 136.4 204.6





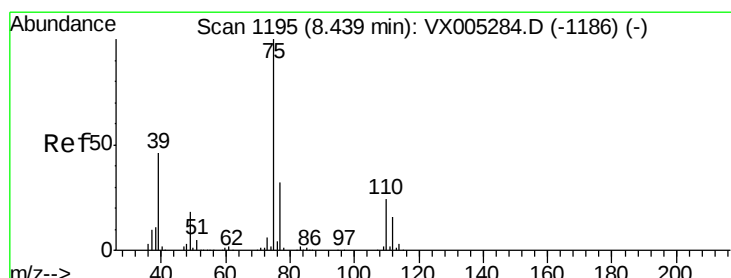
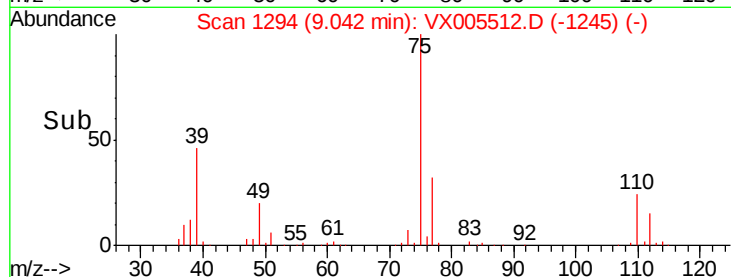
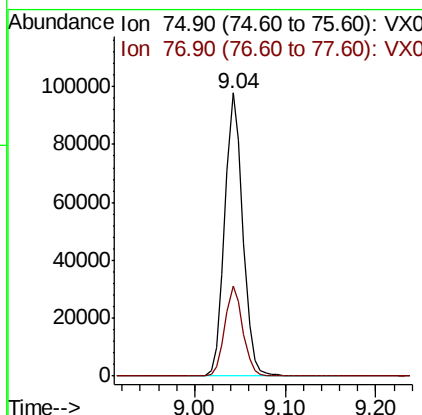
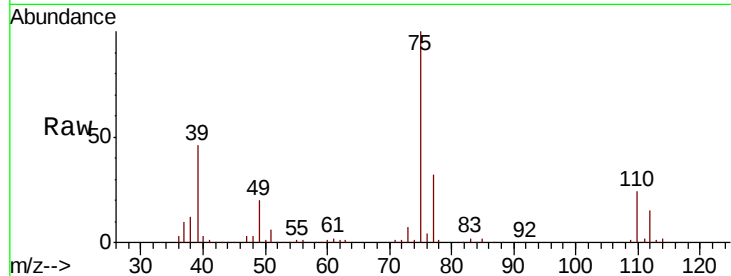
#53
t-1,3-Dichloropropene
Concen: 50.789 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion: 75 Resp: 136180
Ion Ratio Lower Upper
75 100
77 31.7 24.6 37.0

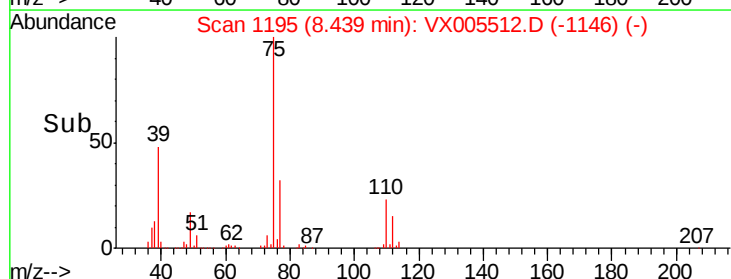
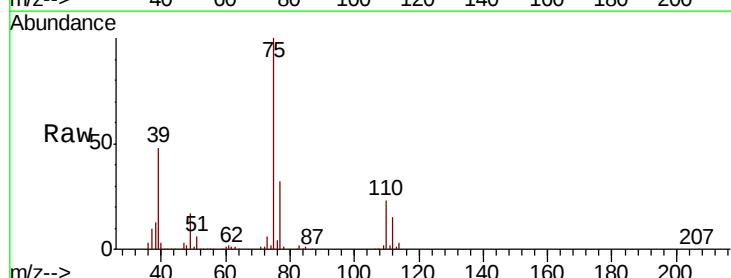
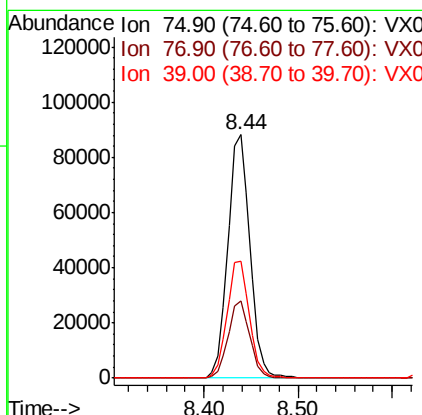
Manual Integrations
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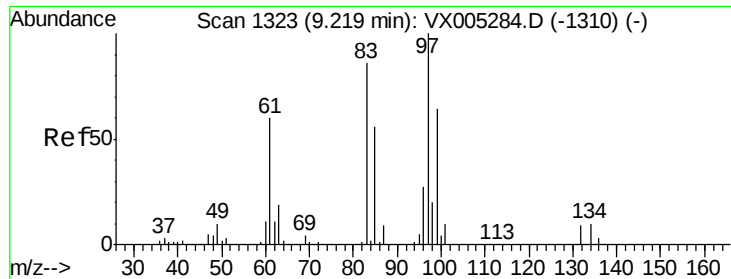
MMDadoda
10/23/2018 1:28:30 PM



#54
cis-1,3-Dichloropropene
Concen: 49.455 ug/l
RT: 8.44 min Scan# 1195
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion: 75 Resp: 143679
Ion Ratio Lower Upper
75 100
77 31.7 26.2 39.2
39 47.8 36.4 54.6





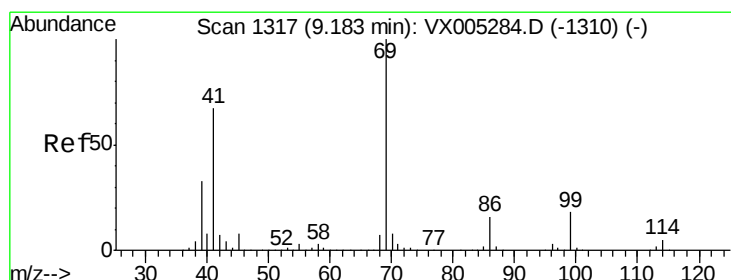
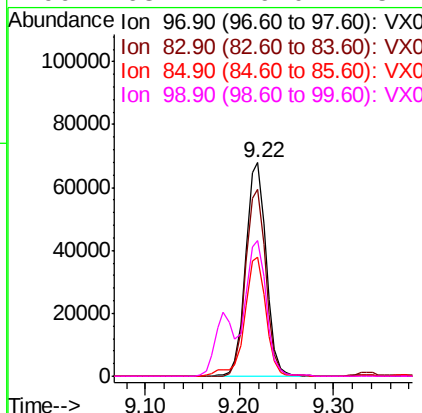
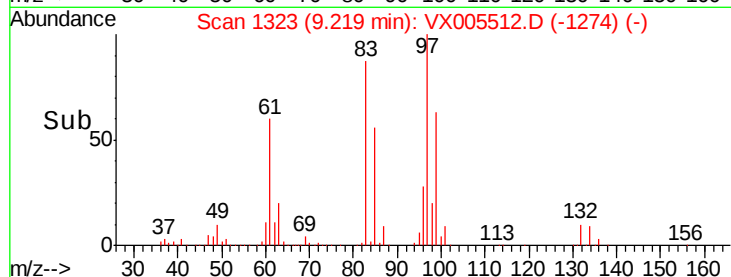
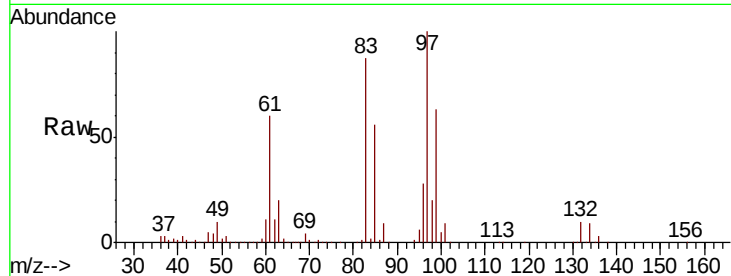
#55
 1,1,2-Trichloroethane
 Concen: 53.946 ug/l
 RT: 9.22 min Scan# 1323
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Instrument :
 MSVOA_X
 ClientSampleId :
 PA-SW-01MSD

Tot Ion:	97	Resp:	103421
Ion	Ratio	Lower	Upper
97	100		
83	87.3	66.4	99.6
85	56.0	43.3	64.9
99	63.4	49.0	73.4

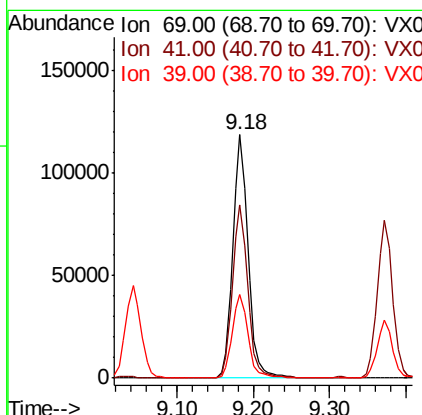
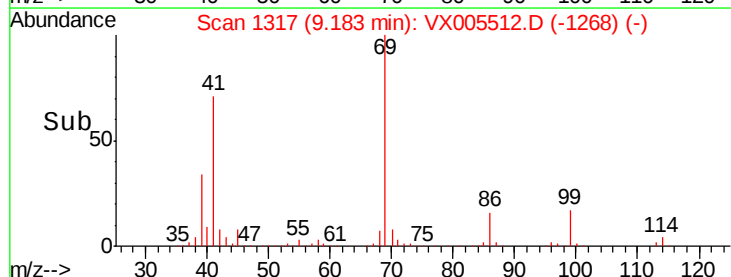
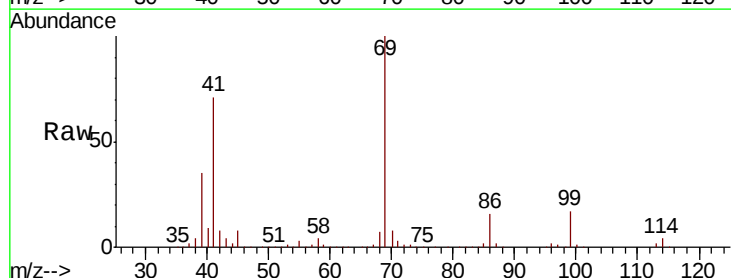
Manual Integrations
 APPROVED

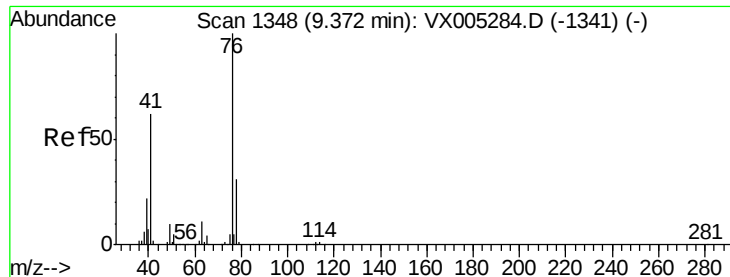
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 59.232 ug/l
 RT: 9.18 min Scan# 1317
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Tgt Ion:	69	Resp:	165541
Ion	Ratio	Lower	Upper
69	100		
41	71.3	51.0	76.4
39	35.2	26.1	39.1





#57

1,3-Dichloropropane

Concen: 53.883 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 76 Resp: 172417

Ion Ratio Lower Upper

76 100

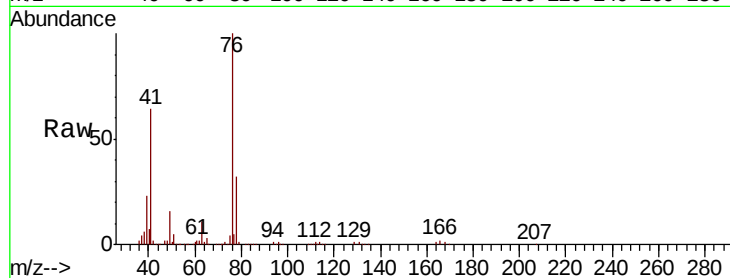
78 32.1 25.5 38.3

Manual Integrations

APPROVED

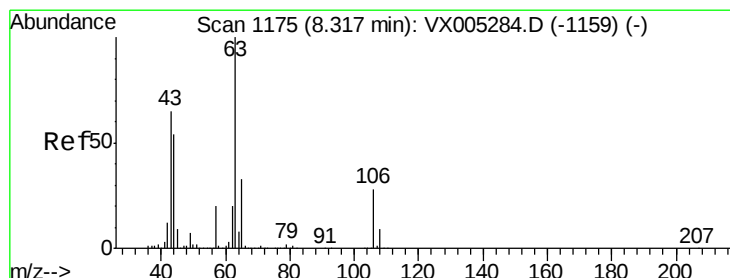
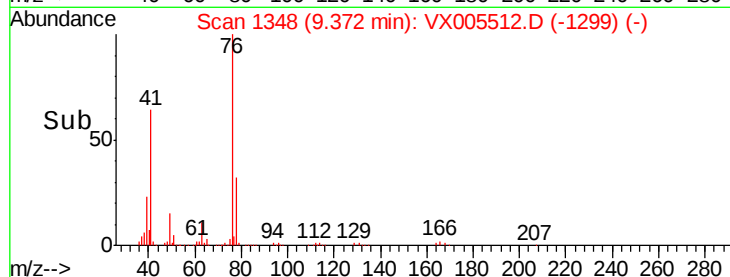
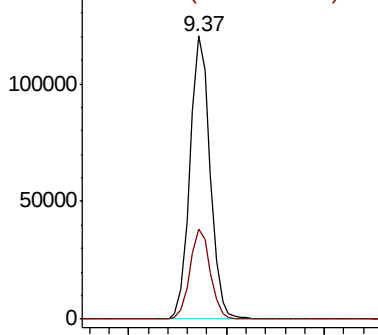
MMDadoda

10/23/2018 1:28:30 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 0.843 ug/l

RT: 8.27 min Scan# 1168

Delta R.T. -0.04 min

Lab File: VX005512.D

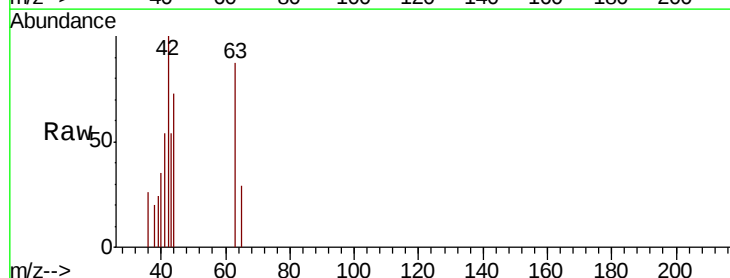
Acq: 23 Oct 2018 10:46

Tgt Ion: 63 Resp: 1321

Ion Ratio Lower Upper

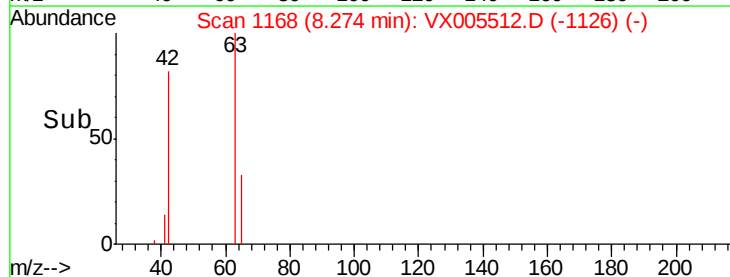
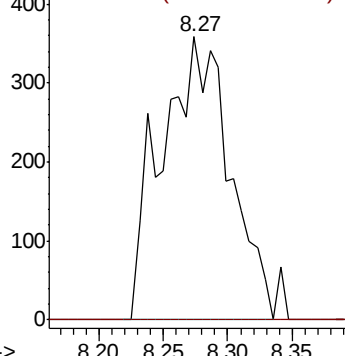
63 100

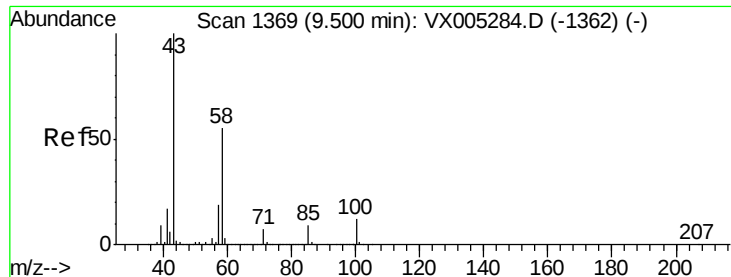
106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





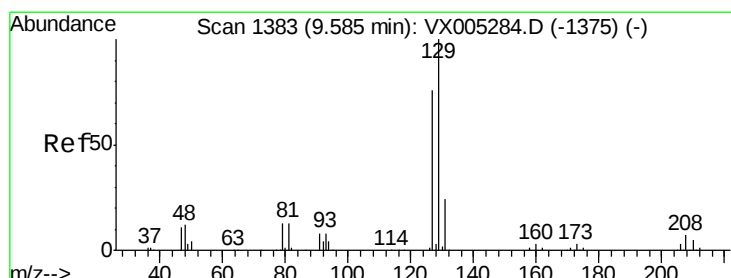
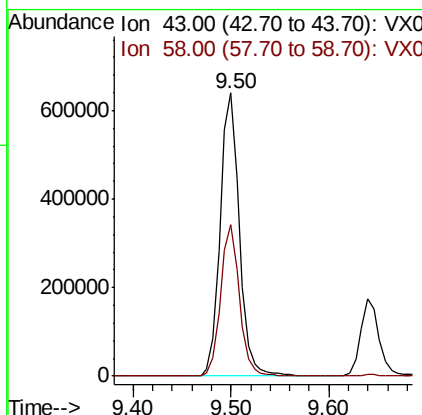
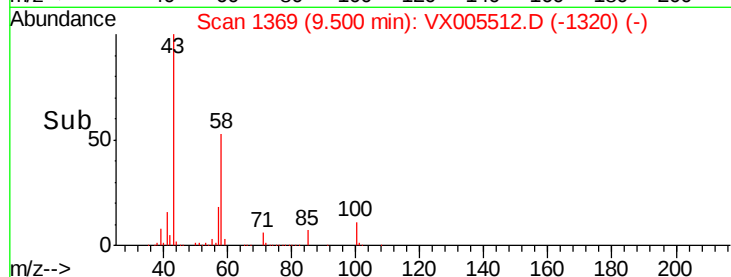
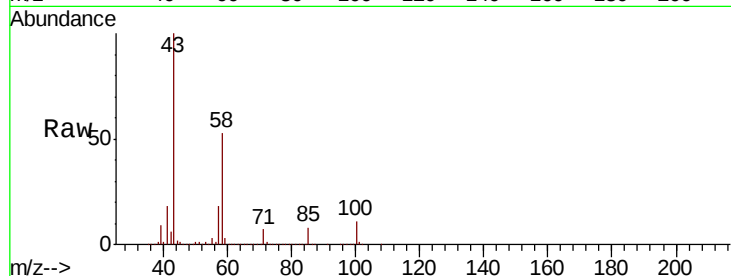
#59
2-Hexanone
Concen: 330.921 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion: 43 Resp: 870839
Ion Ratio Lower Upper
43 100
58 52.4 29.0 87.0

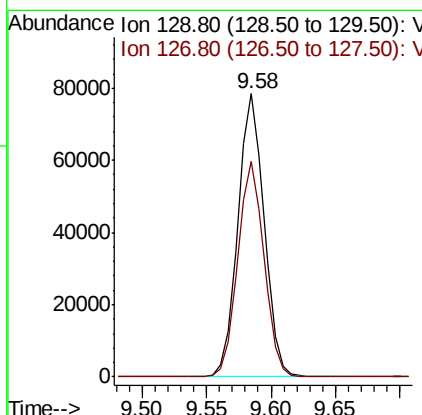
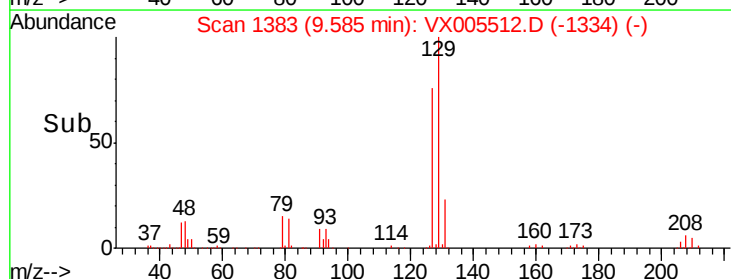
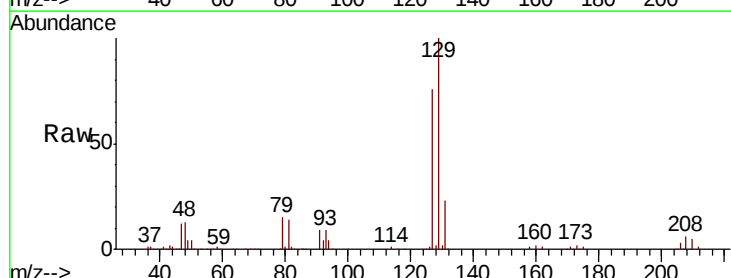
Manual Integrations
APPROVED

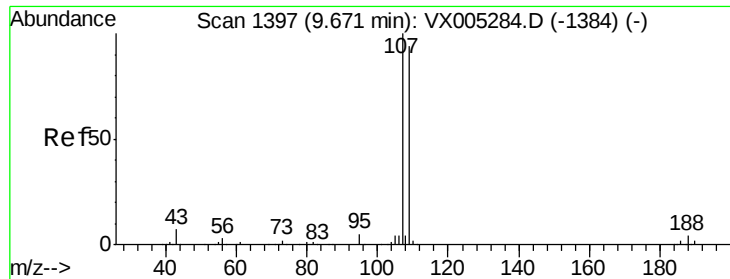
MMDadoda
10/23/2018 1:28:30 PM



#60
Dibromochloromethane
Concen: 55.966 ug/l
RT: 9.58 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion:129 Resp: 110906
Ion Ratio Lower Upper
129 100
127 76.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 53.465 ug/l

RT: 9.68 min Scan# 1398

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion:107 Resp: 107569

Ion Ratio Lower Upper

107 100

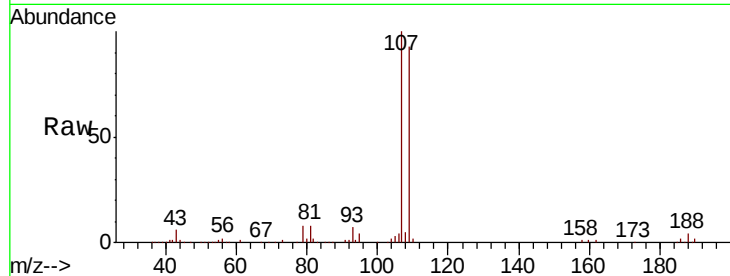
109 93.0 76.0 114.0

Manual Integrations

APPROVED

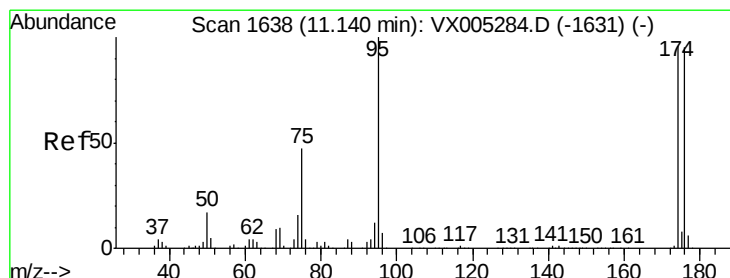
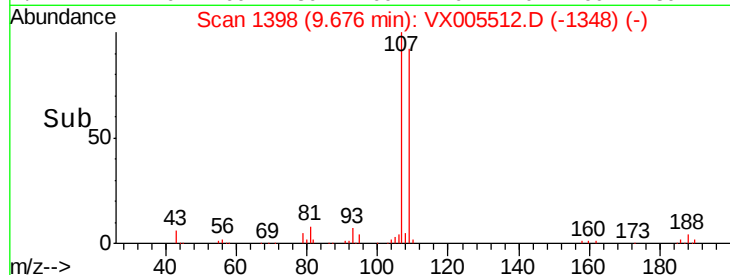
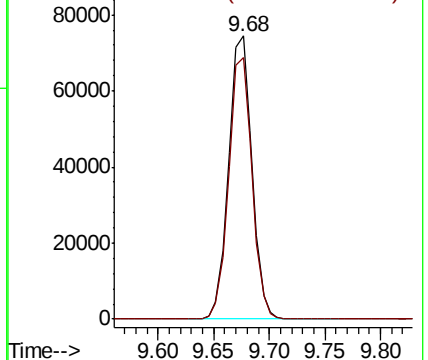
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 53.545 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

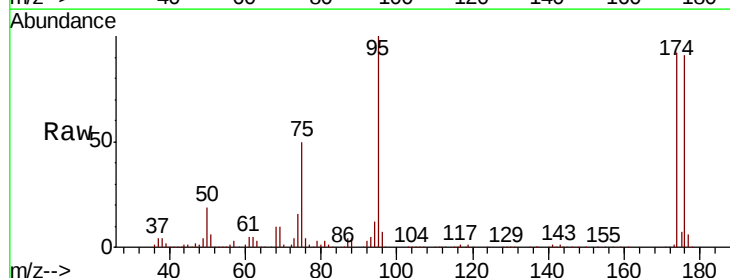
Tgt Ion: 95 Resp: 130245

Ion Ratio Lower Upper

95 100

174 92.0 0.0 185.2

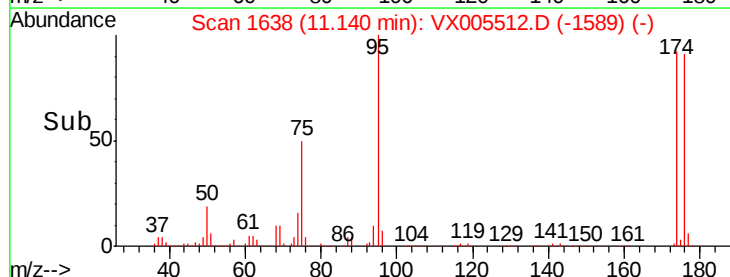
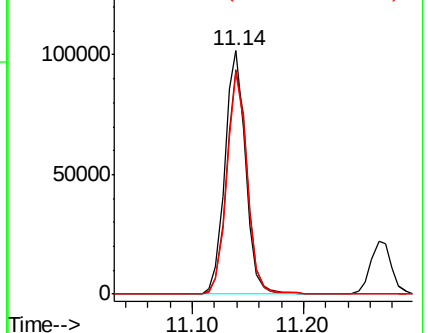
176 89.2 0.0 178.6

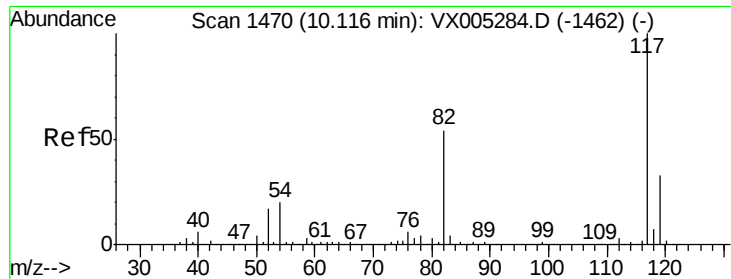


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





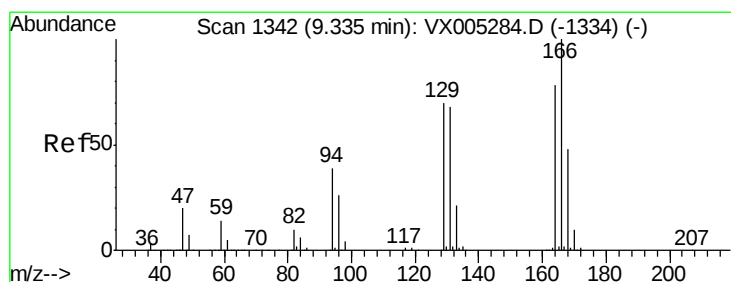
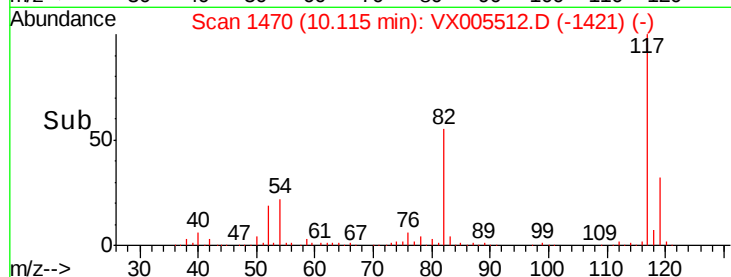
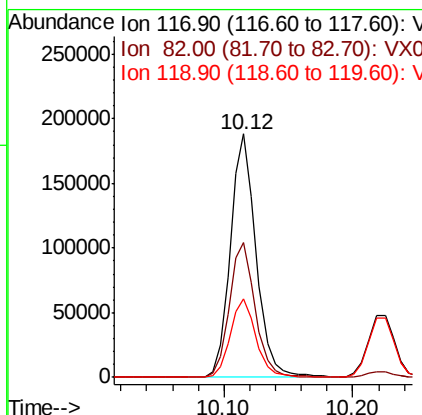
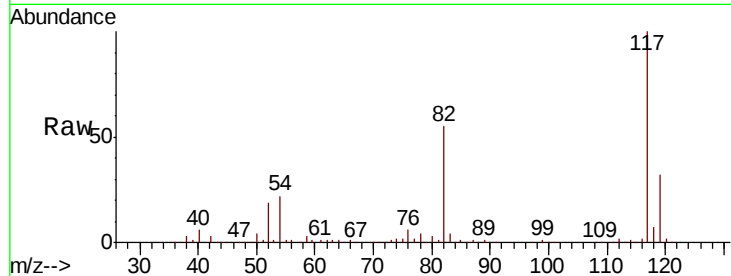
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	47.8	71.6
119	32.2	29.3	43.9

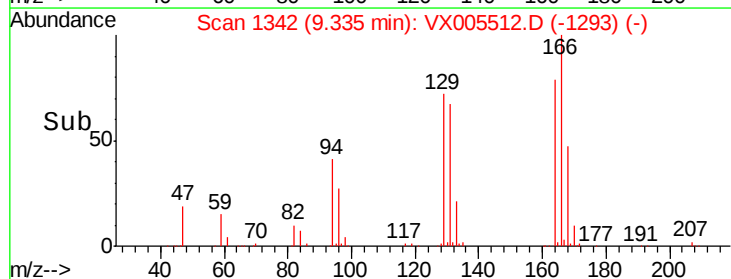
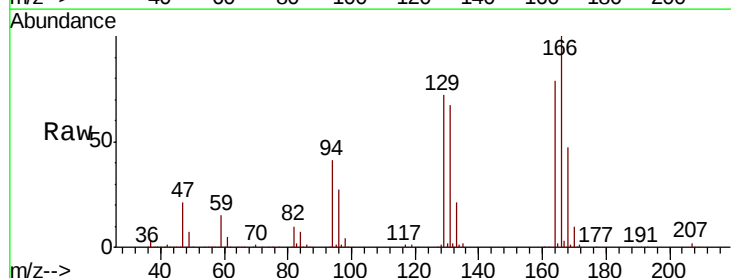
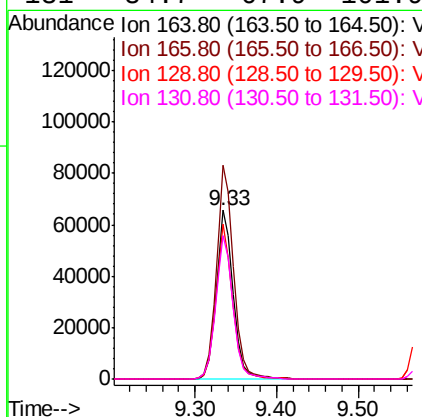
Manual Integrations
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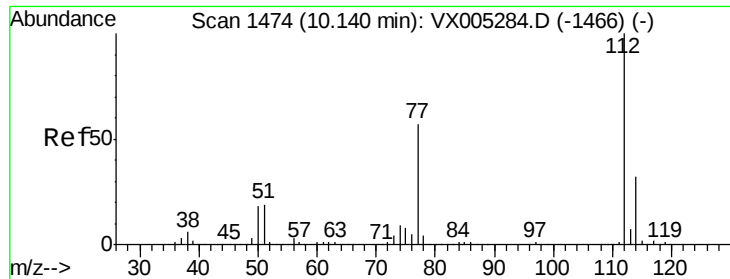
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#64
Tetrachloroethene
Concen: 45.714 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	102.8	154.2
129	91.6	69.4	104.0
131	84.7	67.9	101.9





#65

Chlorobenzene

Concen: 48.608 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion:112 Resp: 270936

Ion Ratio Lower Upper

112 100

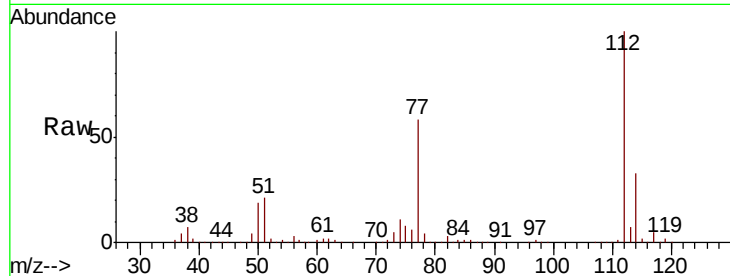
114 32.6 27.8 41.8

Manual Integrations

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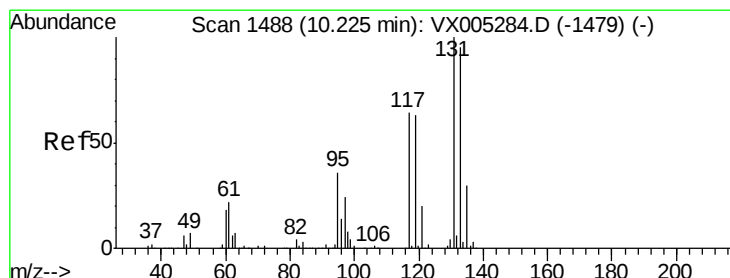
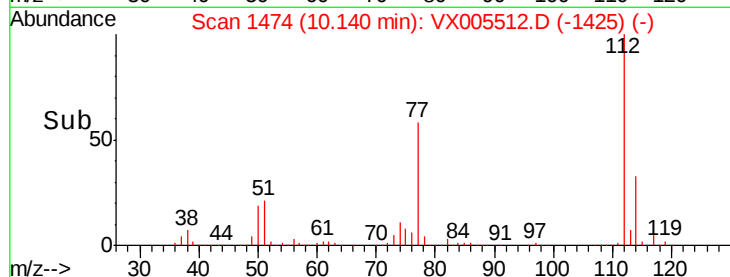
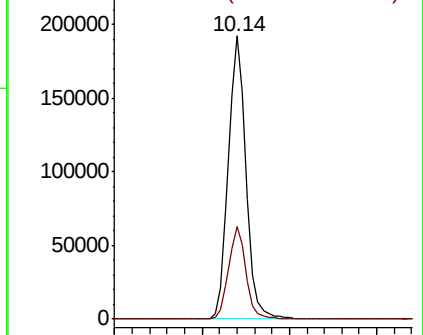
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 52.399 ug/l

RT: 10.23 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

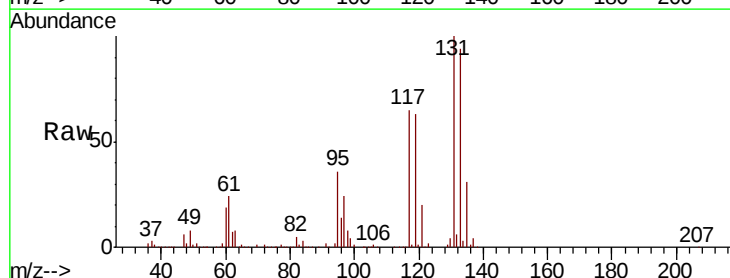
Tgt Ion:131 Resp: 104081

Ion Ratio Lower Upper

131 100

133 94.1 48.1 144.4

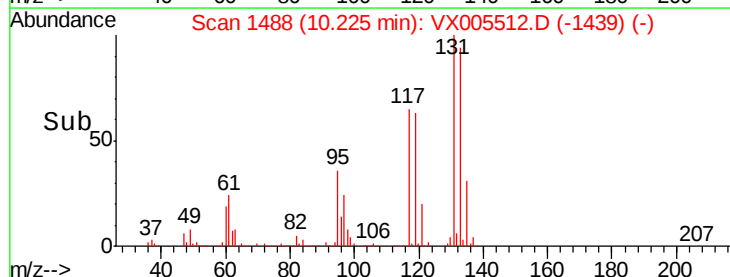
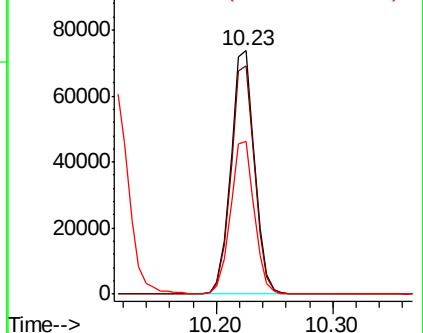
119 63.0 32.9 98.6

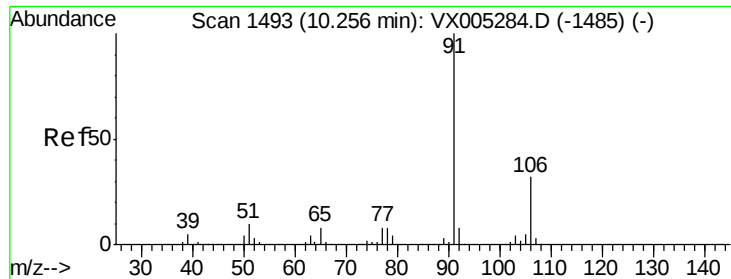


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 50.644 ug/l

RT: 10.26 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 91 Resp: 458906

Ion Ratio Lower Upper

91 100

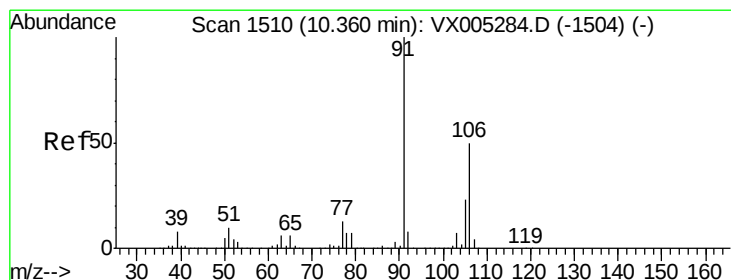
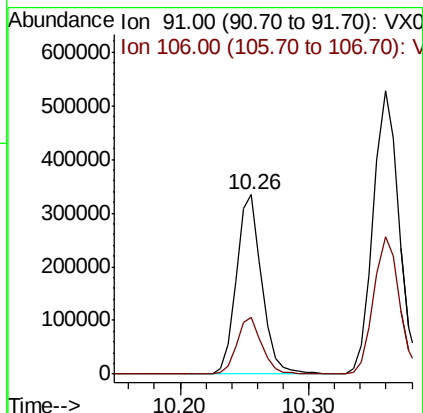
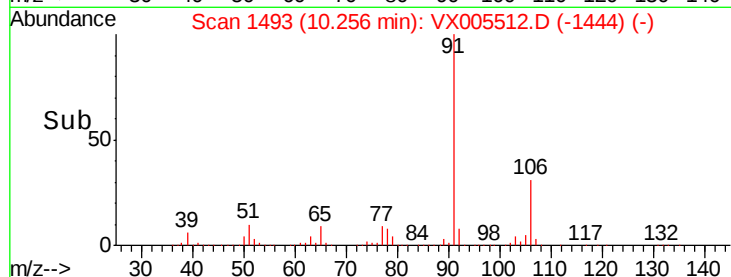
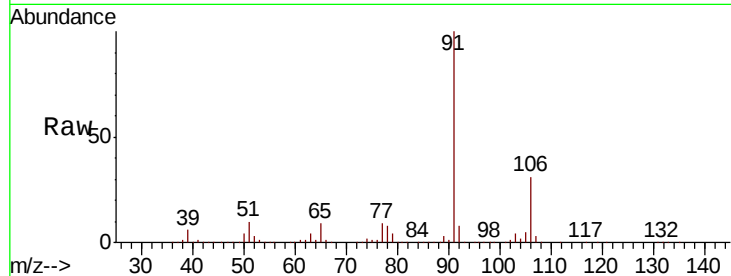
106 31.4 25.9 38.9

Manual Integrations

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#68

m/p-Xylenes

Concen: 101.724 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX005512.D

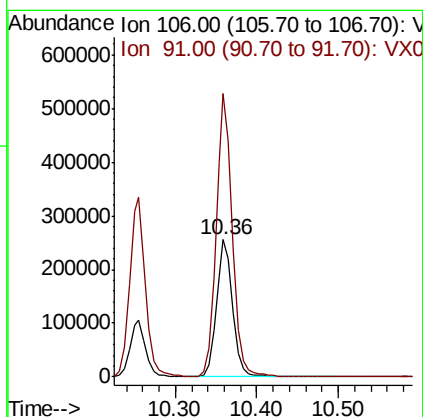
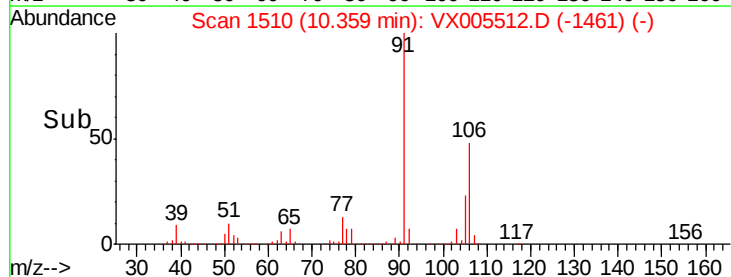
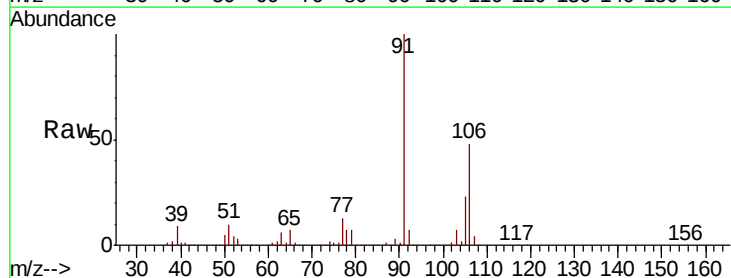
Acq: 23 Oct 2018 10:46

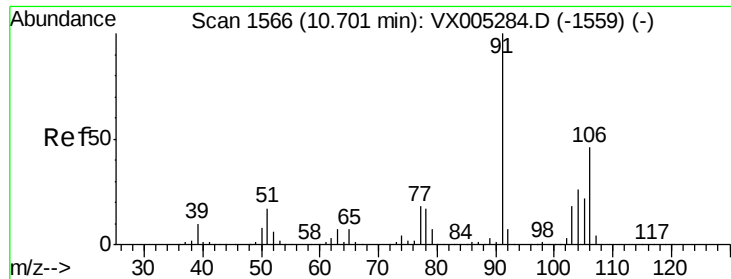
Tgt Ion: 106 Resp: 357766

Ion Ratio Lower Upper

106 100

91 205.9 157.1 235.7





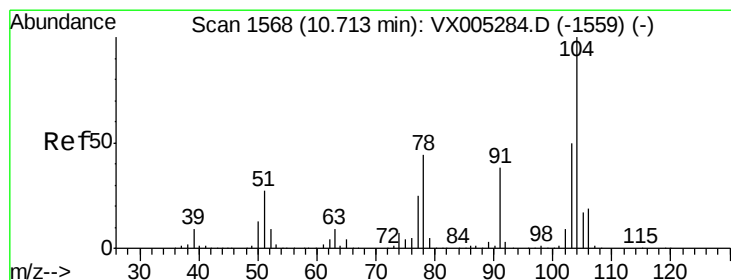
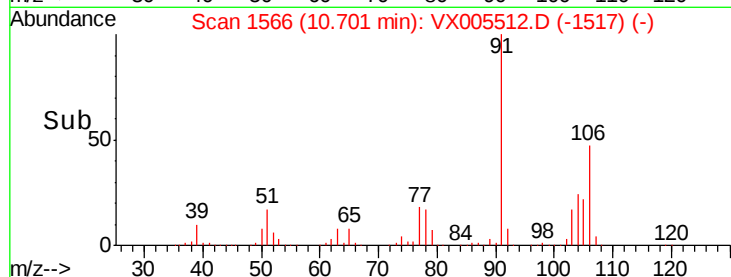
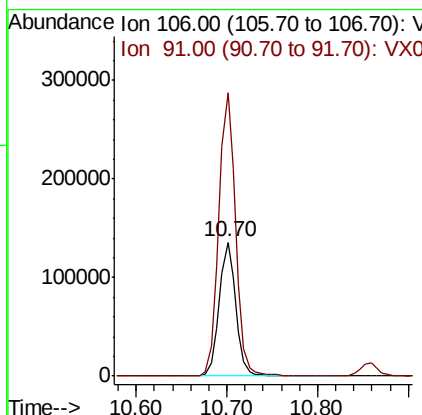
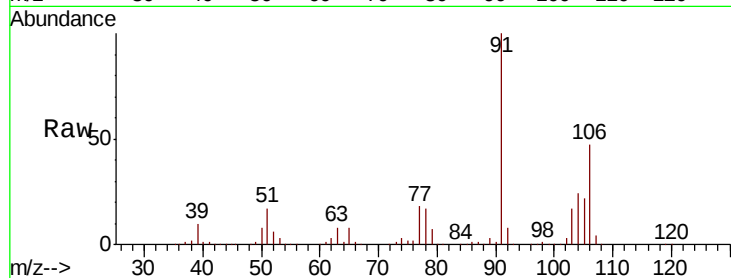
#69
o-Xylene
Concen: 51.487 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion:106 Resp: 174643
Ion Ratio Lower Upper
106 100
91 214.7 105.1 315.1

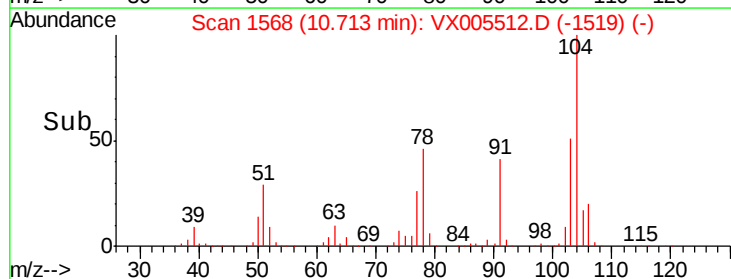
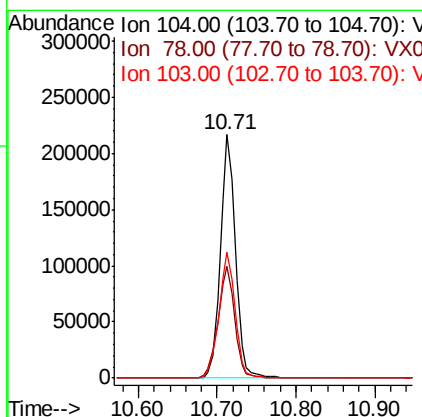
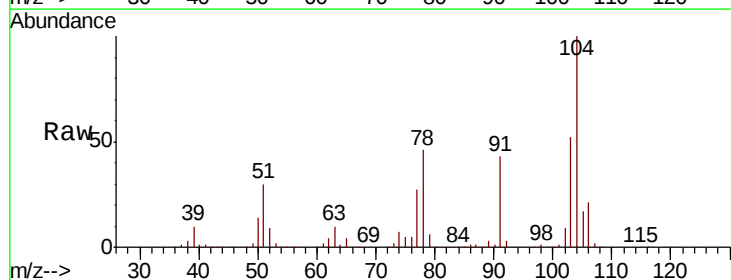
Manual Integrations
APPROVED

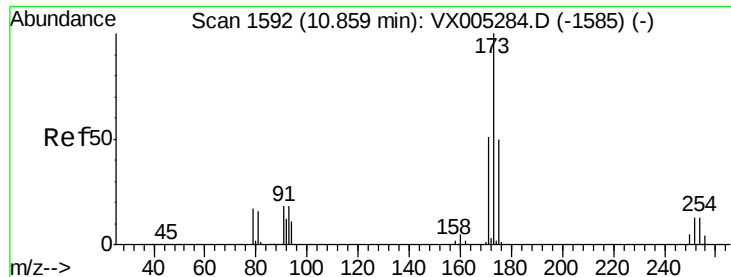
MMDadoda
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#70
Styrene
Concen: 51.952 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion:104 Resp: 289845
Ion Ratio Lower Upper
104 100
78 51.1 37.4 56.0
103 56.0 43.8 65.6





#71

Bromoform

Concen: 53.626 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion:173 Resp: 95189

Ion Ratio Lower Upper

173 100

175 48.7 24.1 72.3

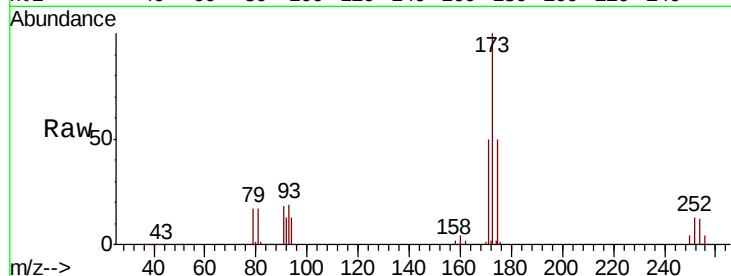
254 0.2 0.2 0.2

Manual Integrations

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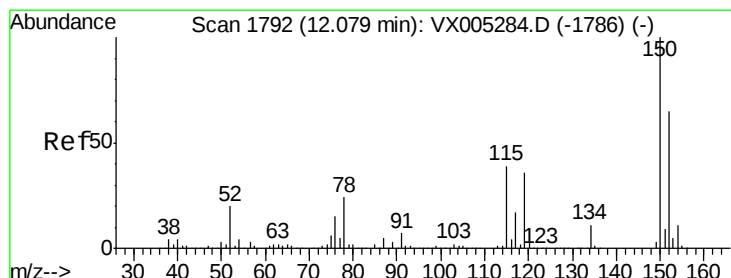
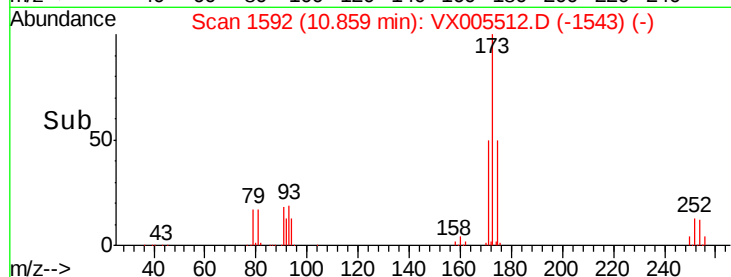
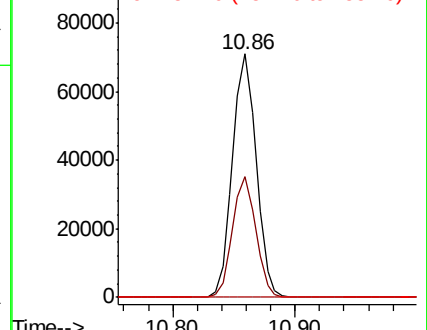
10/23/2018 1:28:30 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

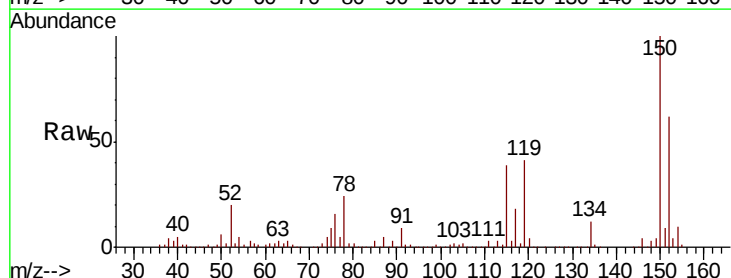
Tgt Ion:152 Resp: 147331

Ion Ratio Lower Upper

152 100

115 79.1 39.0 117.0

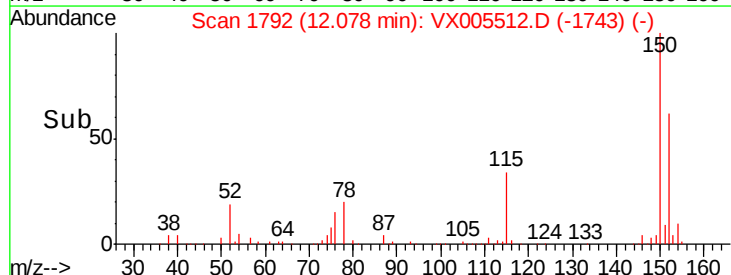
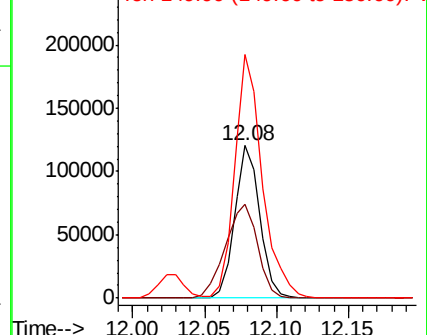
150 175.0 0.0 351.0

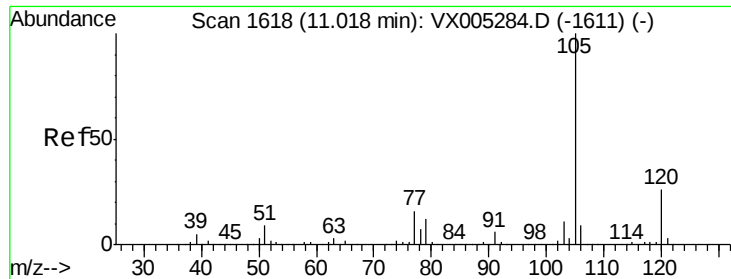


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 53.966 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion: 105 Resp: 472655

Ion Ratio Lower Upper

105 100

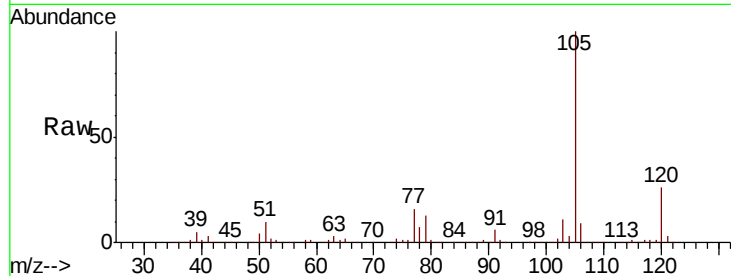
120 26.2 13.5 40.4

Manual Integrations

APPROVED

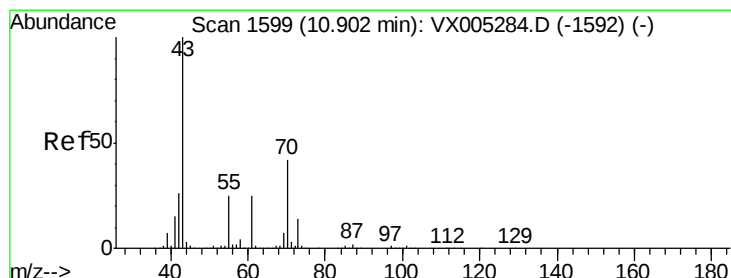
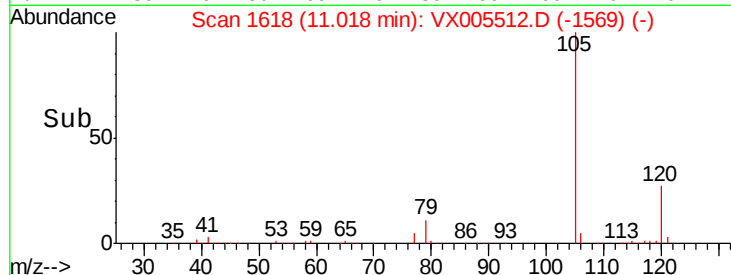
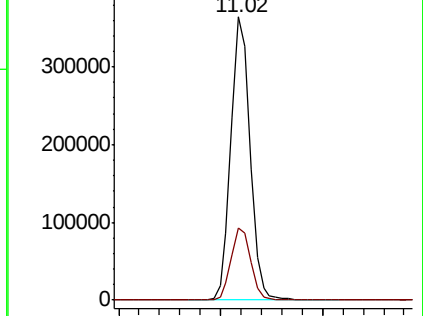
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 51.729 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion: 43 Resp: 218522

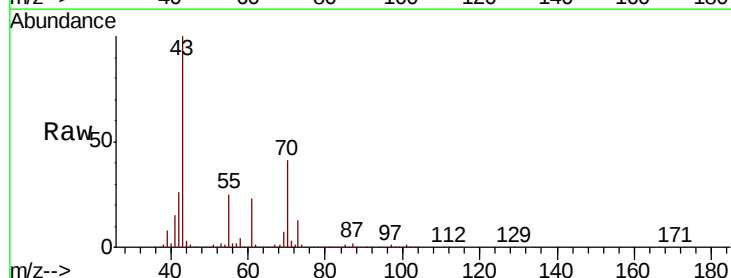
Ion Ratio Lower Upper

43 100

70 39.9 37.4 56.0

55 25.2 21.8 32.8

61 22.9 20.6 30.8

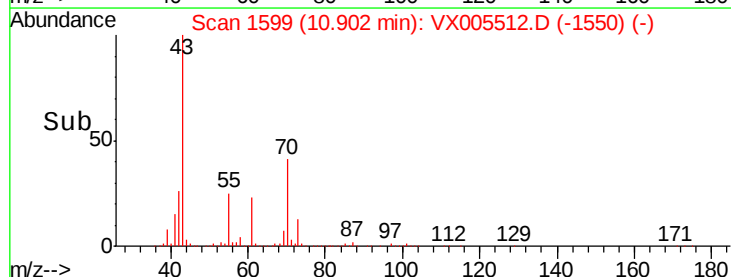
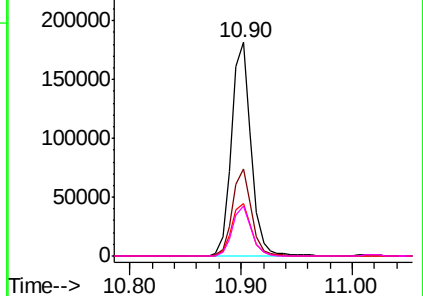


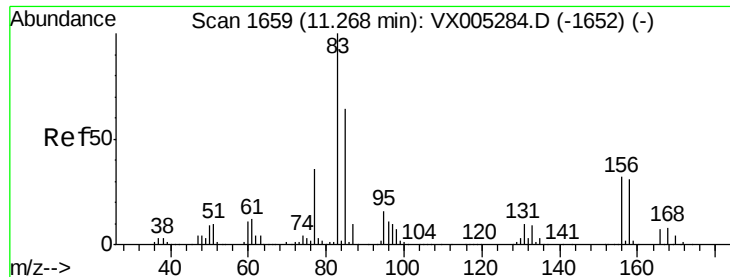
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 55.015 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

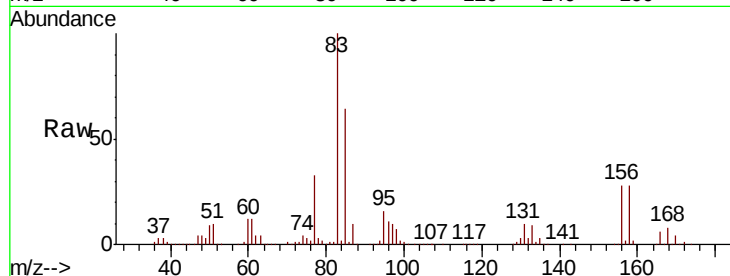
ClientSampleId :

PA-SW-01MSD

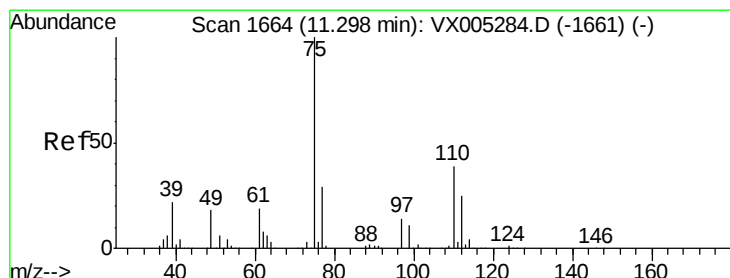
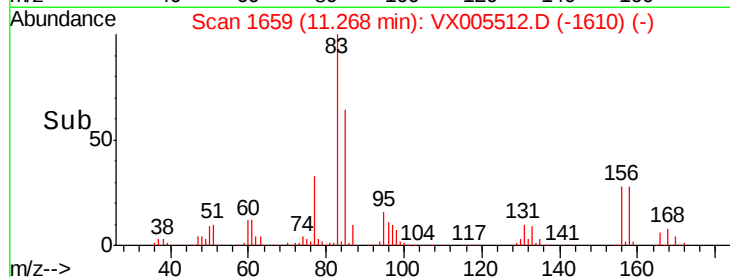
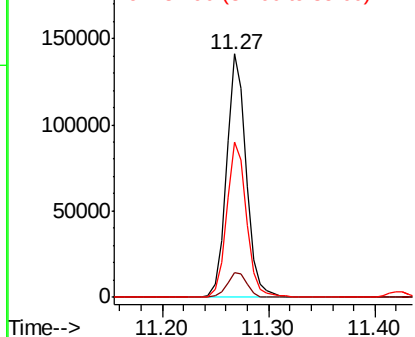
Tot Ion:	83	Resp:	181765
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	64.4	32.3	96.8

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Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 55.749 ug/l m

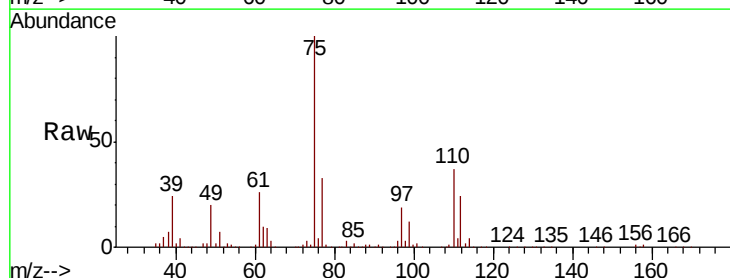
RT: 11.30 min Scan# 1664

Delta R.T. -0.00 min

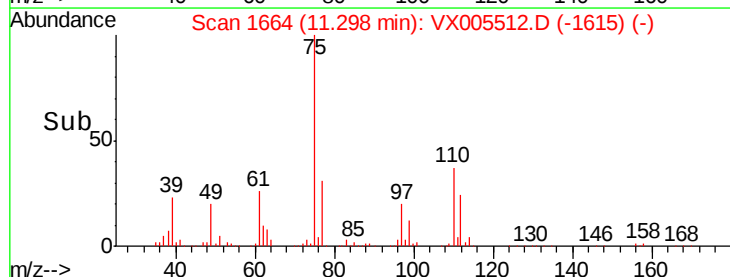
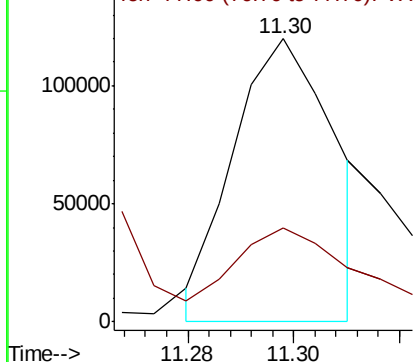
Lab File: VX005512.D

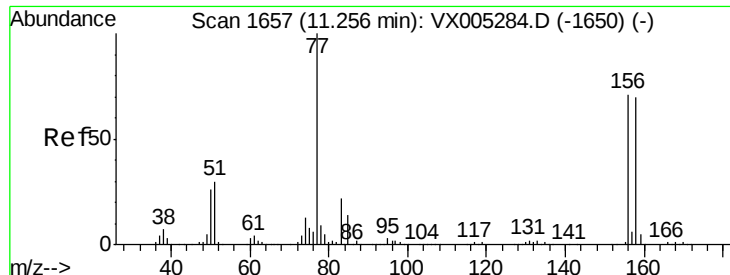
Acq: 23 Oct 2018 10:46

Tgt Ion:	75	Resp:	159319
Ion Ratio	Lower	Upper	
75	100		
77	42.2	20.2	60.6



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 50.647 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

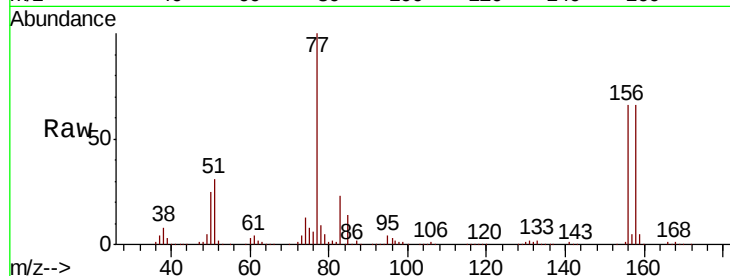
ClientSampleId :

PA-SW-01MSD

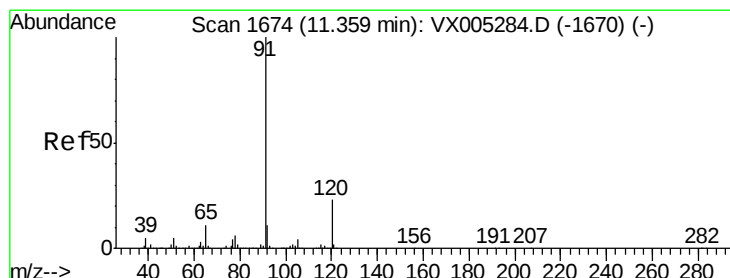
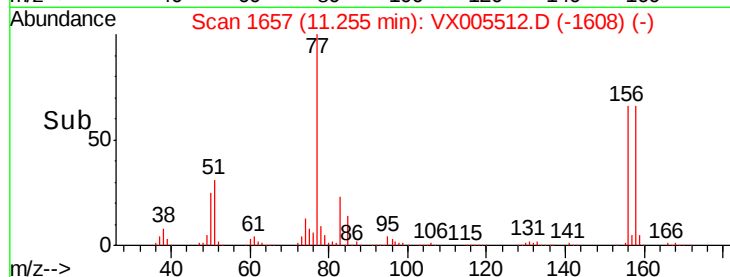
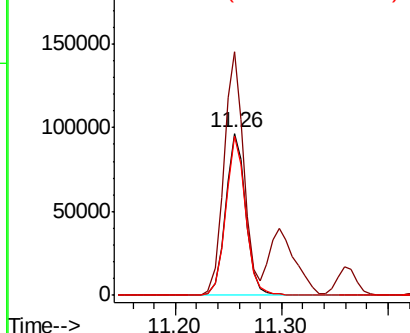
Tot Ion:	156	Resp:	126833
Ion Ratio	Lower	Upper	
156	100		
77	149.3	71.5	214.3
158	97.6	48.9	146.8

Manual Integrations
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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VX0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 53.292 ug/l

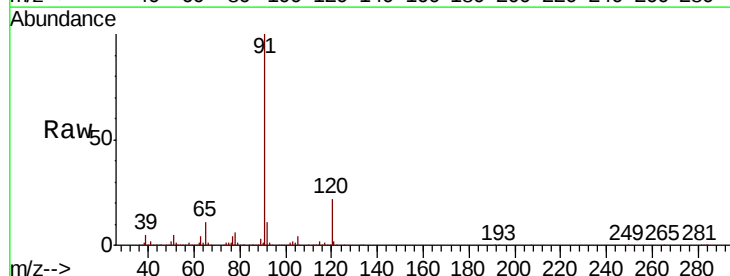
RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

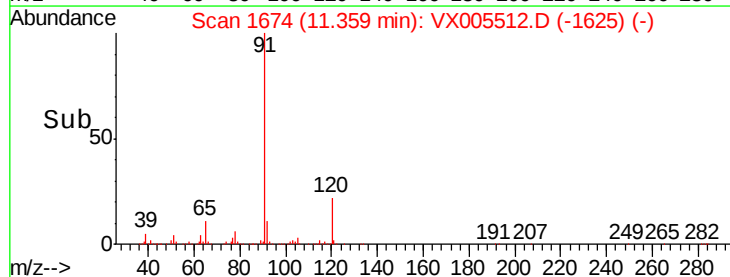
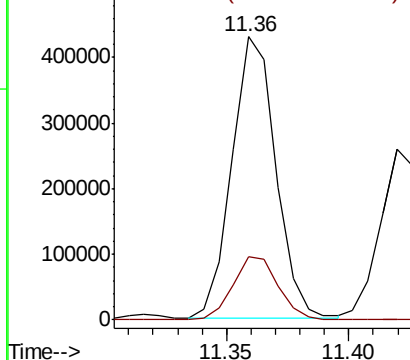
Lab File: VX005512.D

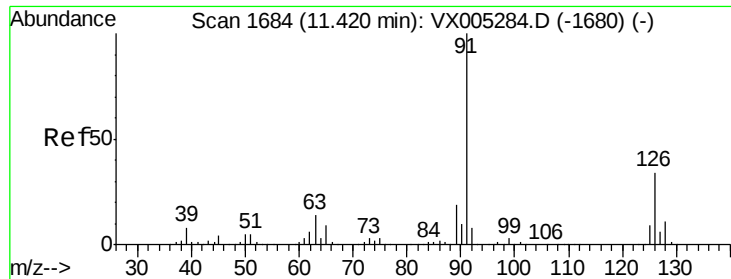
Acq: 23 Oct 2018 10:46

Tgt Ion:	91	Resp:	537112
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 120.00 (119.70 to 120.70): V





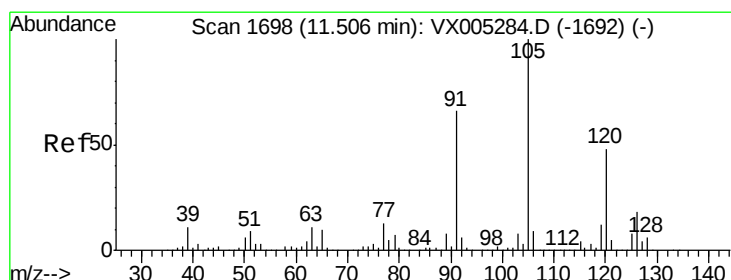
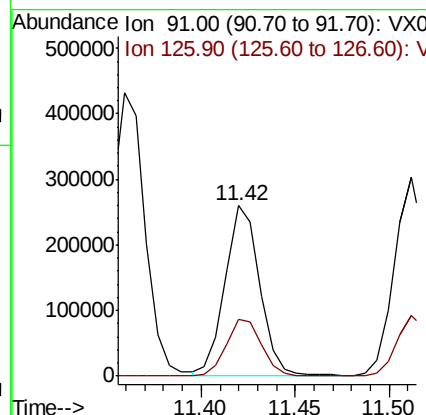
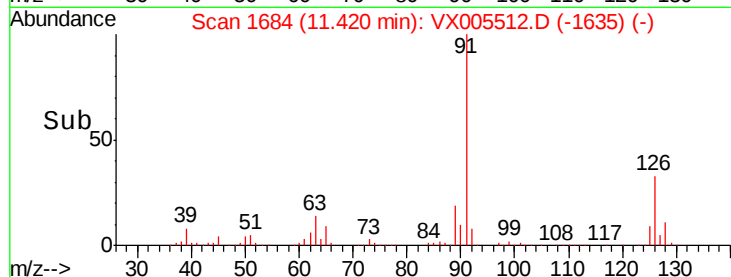
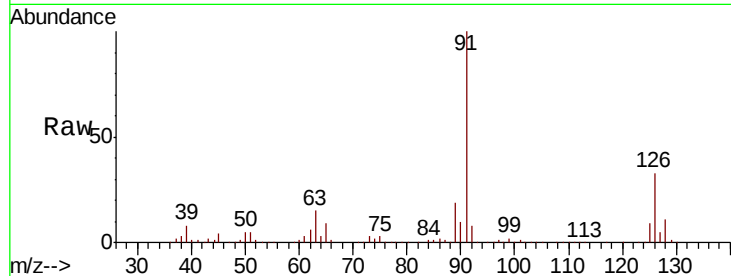
#79
2-Chlorotoluene
Concen: 53.311 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion: 91 Resp: 329063
Ion Ratio Lower Upper
91 100
126 34.6 17.9 53.7

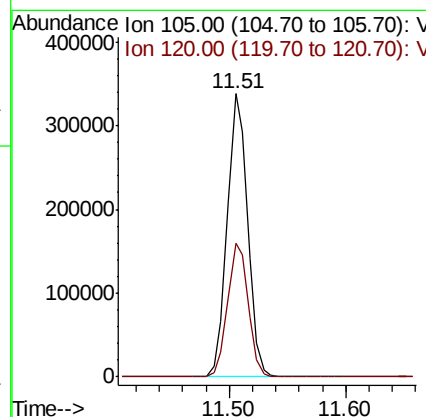
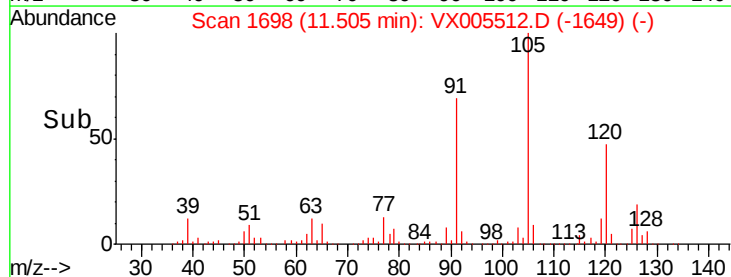
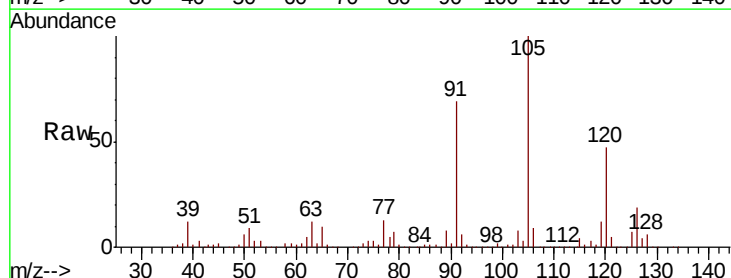
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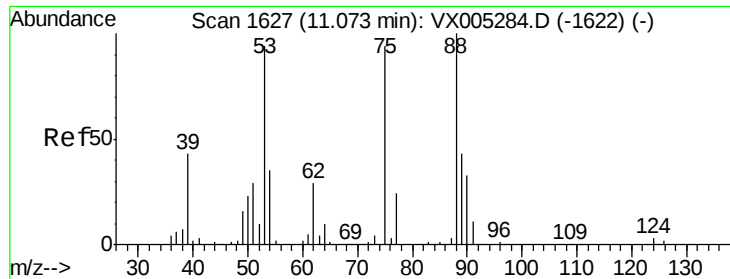
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#80
1,3,5-Trimethylbenzene
Concen: 54.274 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion: 105 Resp: 407061
Ion Ratio Lower Upper
105 100
120 48.2 25.6 76.8





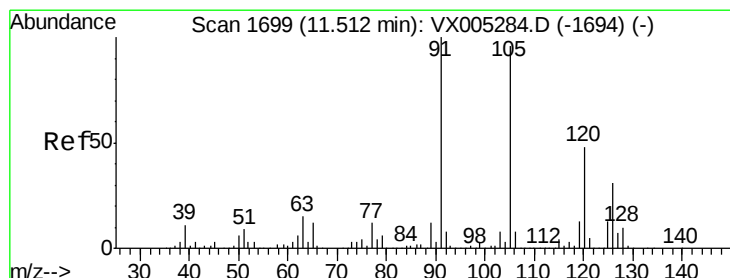
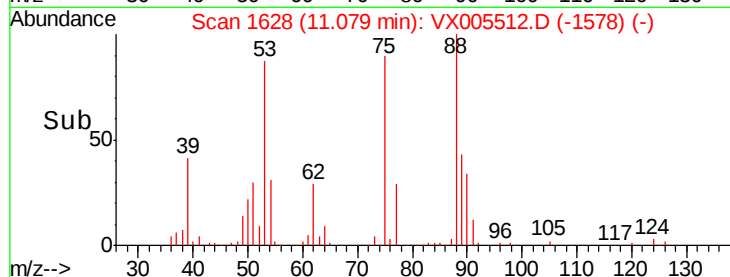
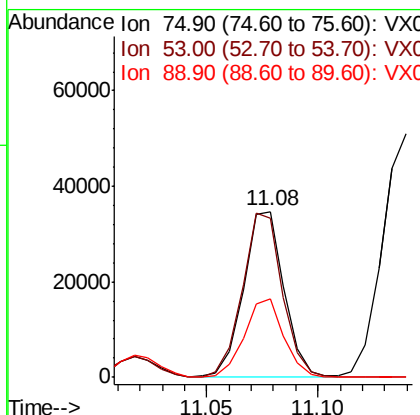
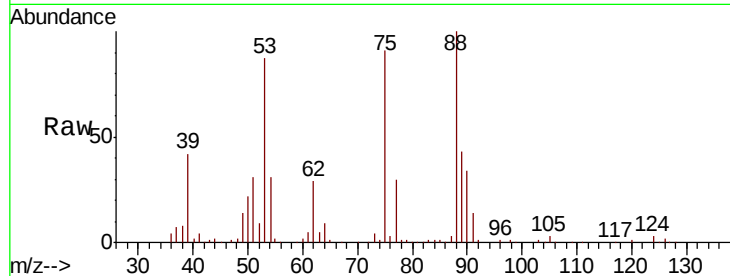
#81
trans-1,4-Dichloro-2-butene
Concen: 46.212 ug/l
RT: 11.08 min Scan# 1628
Delta R.T. 0.01 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion: 75 Resp: 43464
Ion Ratio Lower Upper
75 100
53 98.8 80.1 120.1
89 47.0 37.2 55.8

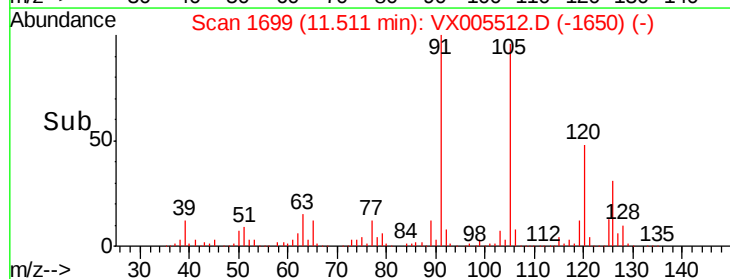
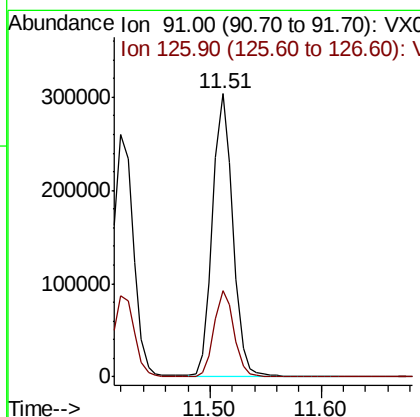
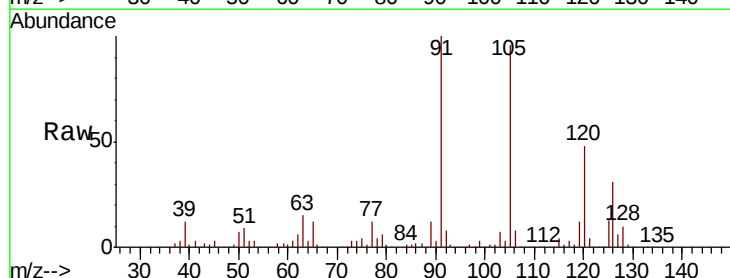
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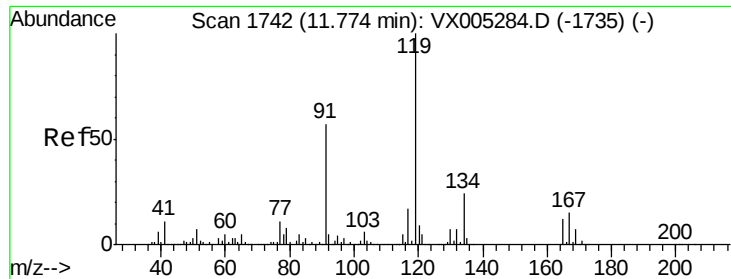
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#82
4-Chlorotoluene
Concen: 52.669 ug/l
RT: 11.51 min Scan# 1699
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion: 91 Resp: 385377
Ion Ratio Lower Upper
91 100
126 30.3 15.5 46.5





#83

tert-Butylbenzene

Concen: 53.101 ug/l

RT: 11.77 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

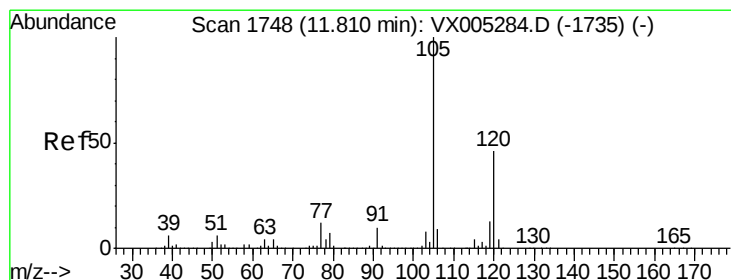
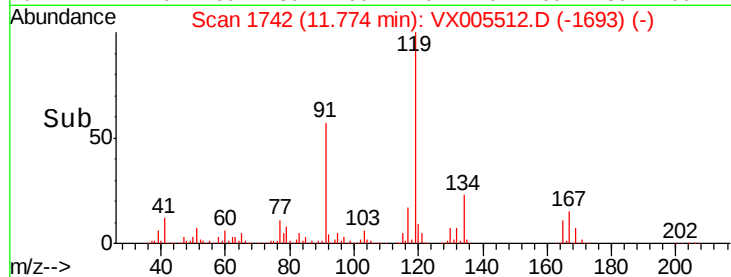
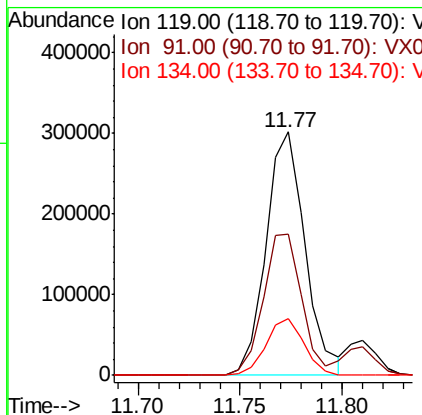
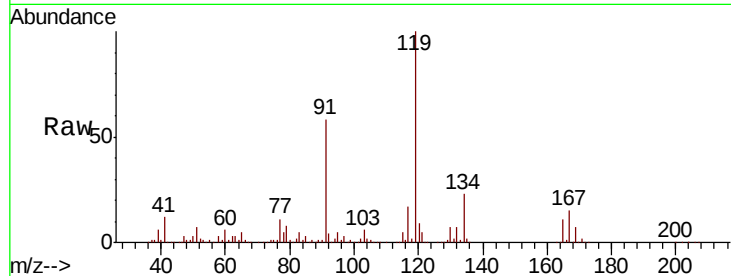
ClientSampleId :

PA-SW-01MSD

Tot Ion:	119	Resp:	403308
Ion Ratio	Lower	Upper	
119	100		
91	56.9	27.0	81.0
134	22.5	11.7	35.1

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 53.913 ug/l

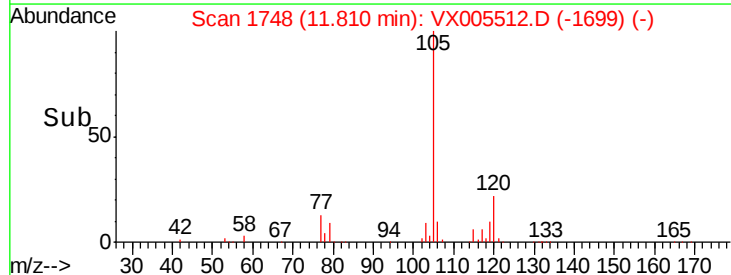
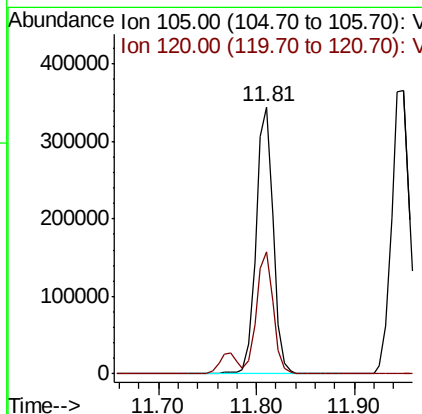
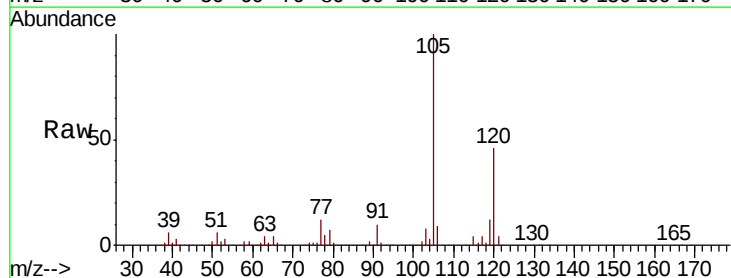
RT: 11.81 min Scan# 1748

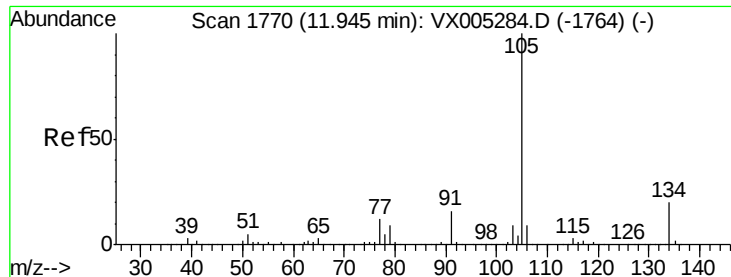
Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	105	Resp:	416126
Ion Ratio	Lower	Upper	
105	100		
120	44.8	23.2	69.6





#85

sec-Butylbenzene

Concen: 52.653 ug/l

RT: 11.95 min Scan# 1771

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

ClientSampleId :

PA-SW-01MSD

Tot Ion:105 Resp: 473255

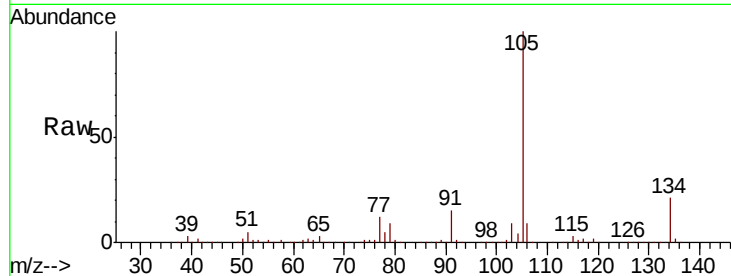
Ion Ratio Lower Upper

105 100

134 20.5 10.5 31.5

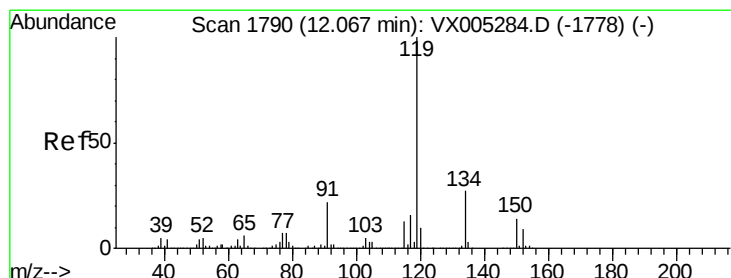
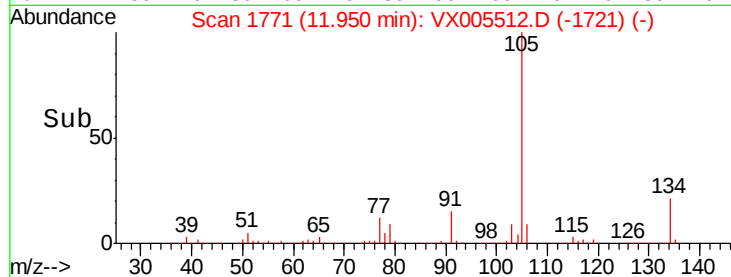
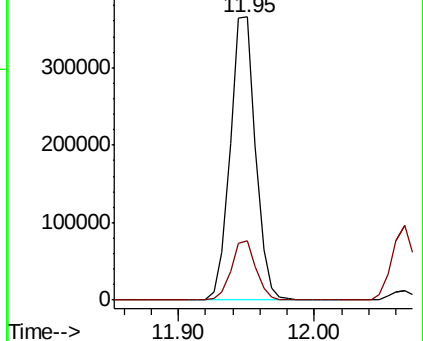
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.774 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

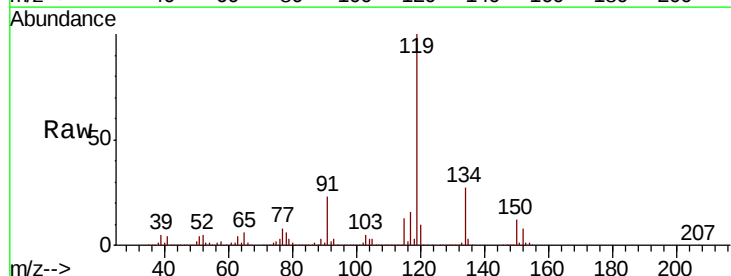
Tgt Ion:119 Resp: 420605

Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

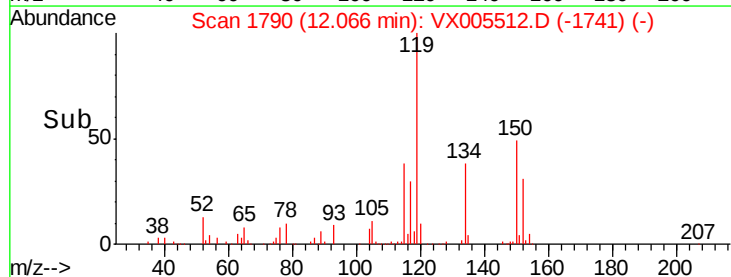
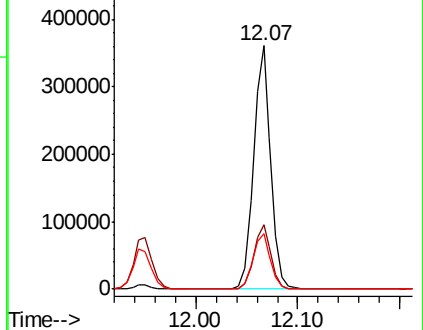
91 23.5 10.9 32.7

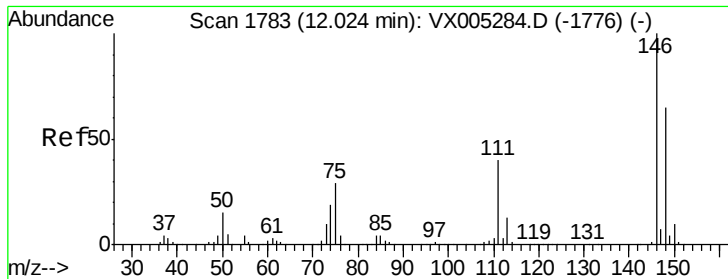


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#87

1,3-Dichlorobenzene

Concen: 50.169 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

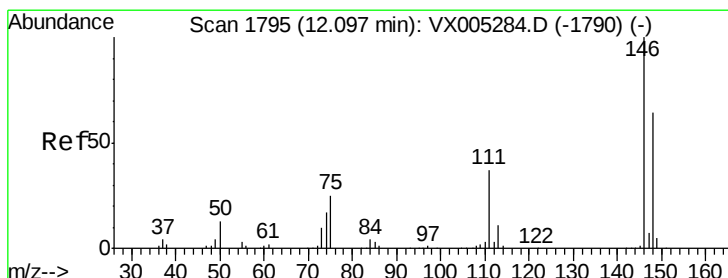
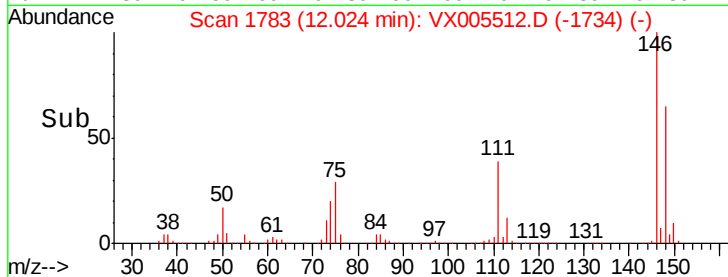
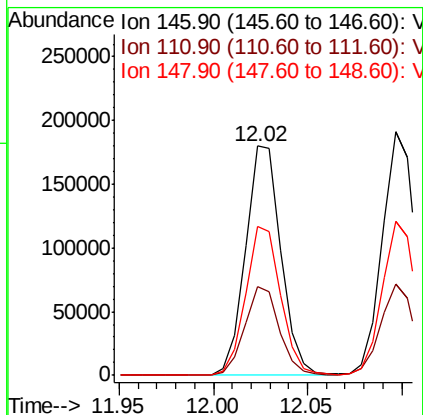
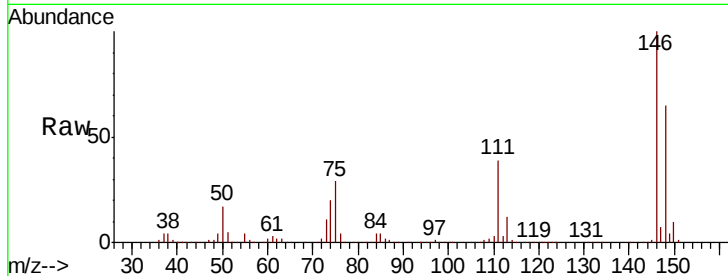
ClientSampleId :

PA-SW-01MSD

Tot Ion:	146	Resp:	234766
Ion Ratio	Lower	Upper	
146	100		
111	37.9	18.7	56.1
148	64.3	32.1	96.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 50.090 ug/l

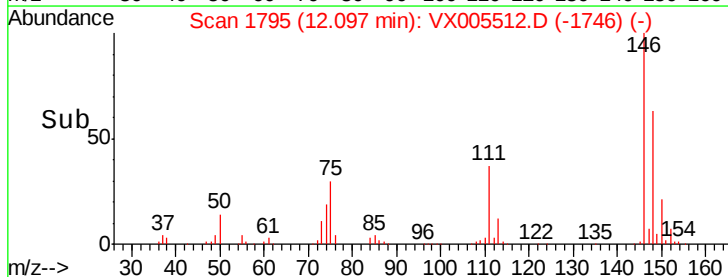
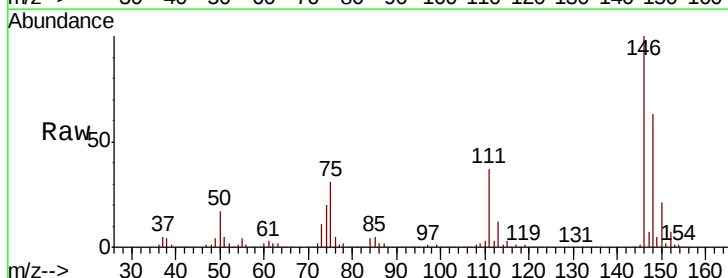
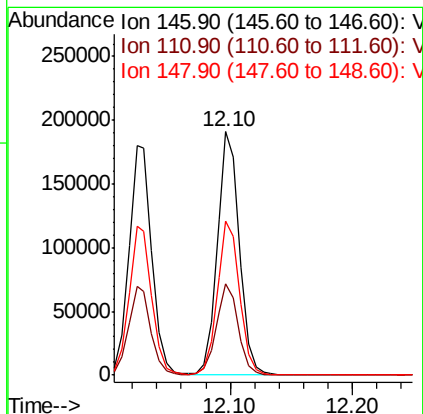
RT: 12.10 min Scan# 1795

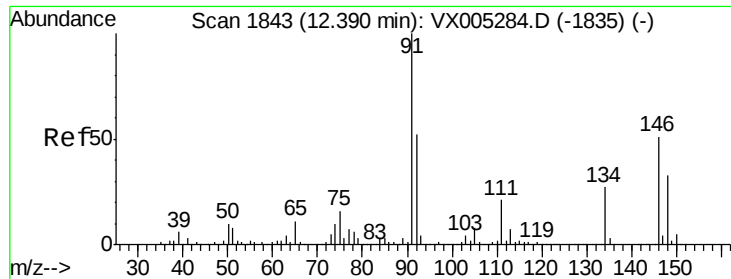
Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	146	Resp:	239789
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.1	54.1
148	63.8	32.0	96.0





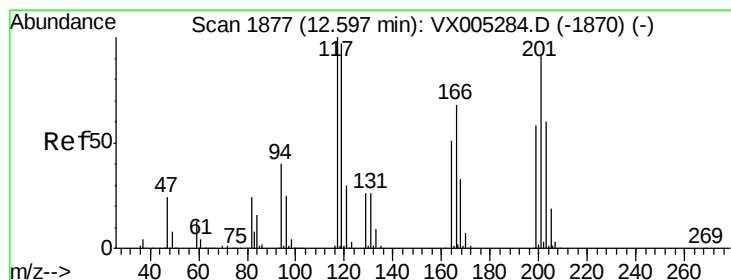
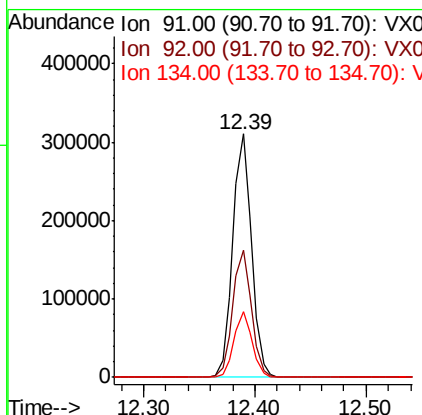
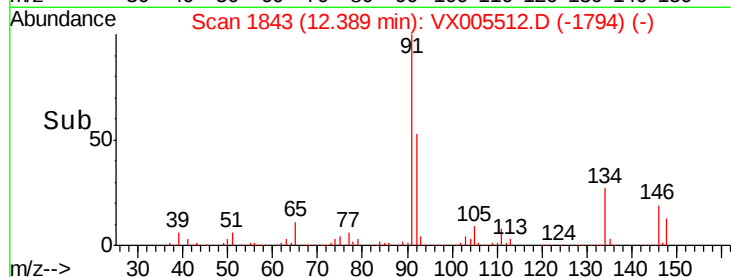
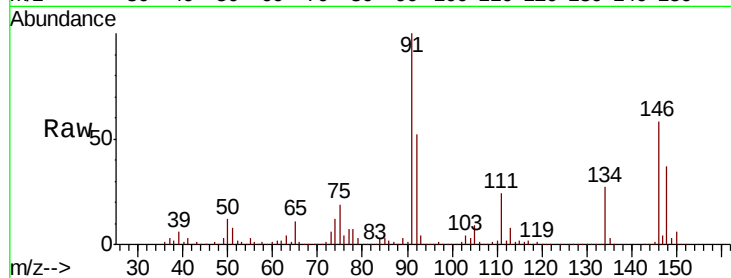
#89
n-Butylbenzene
Concen: 48.965 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.3	81.9
134	26.1	13.6	40.7

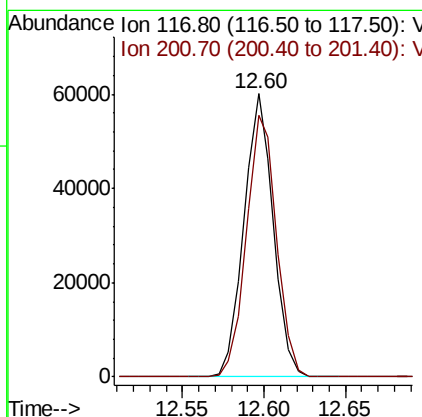
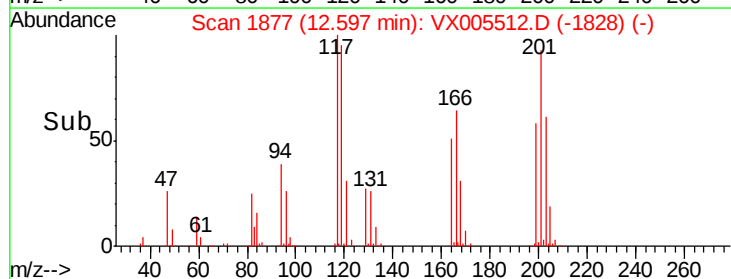
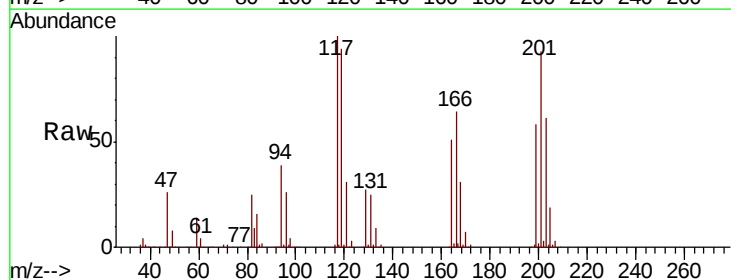
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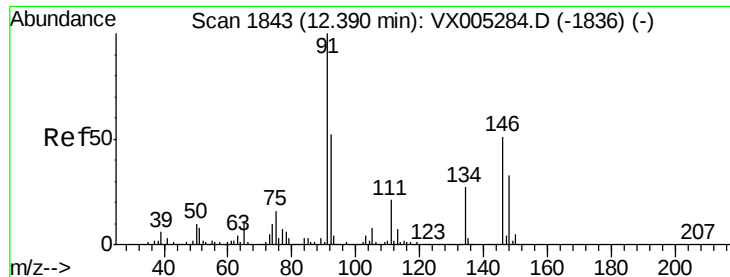
MMDadoda
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#90
Hexachloroethane
Concen: 53.431 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.6	46.9	140.6





#91

1,2-Dichlorobenzene

Concen: 50.257 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Instrument :

MSVOA_X

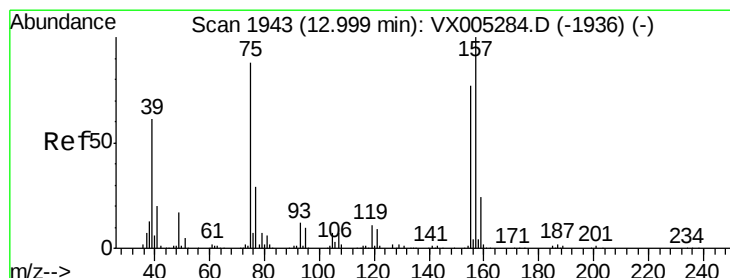
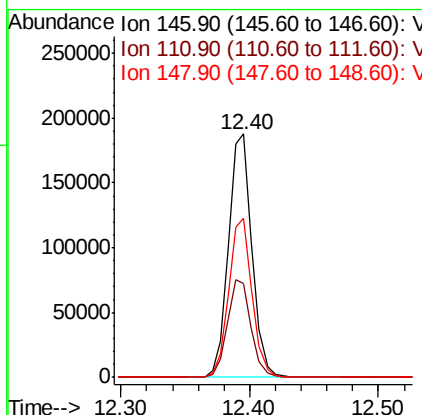
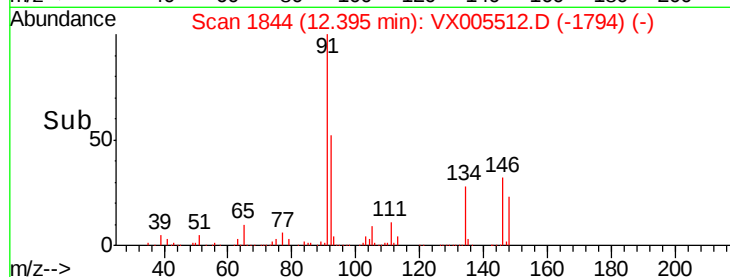
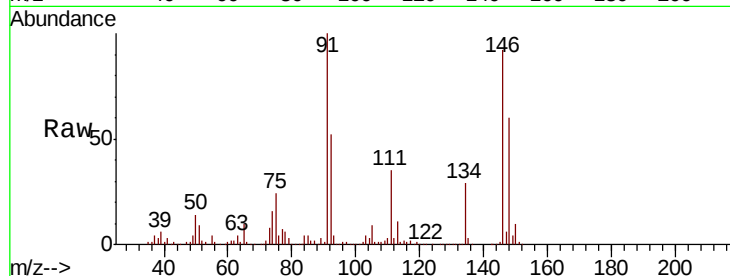
ClientSampleId :

PA-SW-01MSD

Tot Ion:	146	Resp:	239995
Ion Ratio	Lower	Upper	
146	100		
111	40.1	19.4	58.1
148	64.8	32.8	98.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 59.451 ug/l

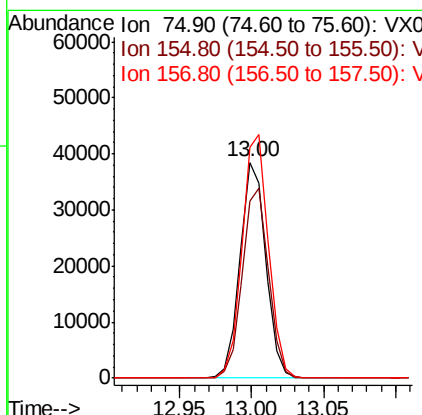
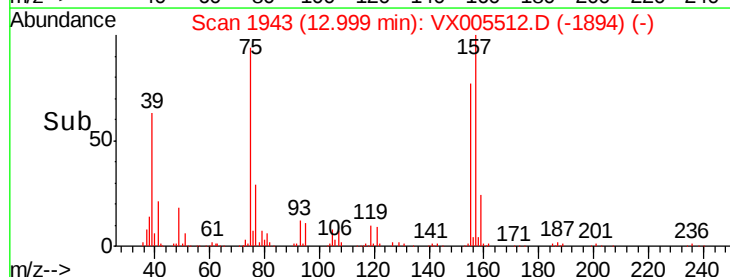
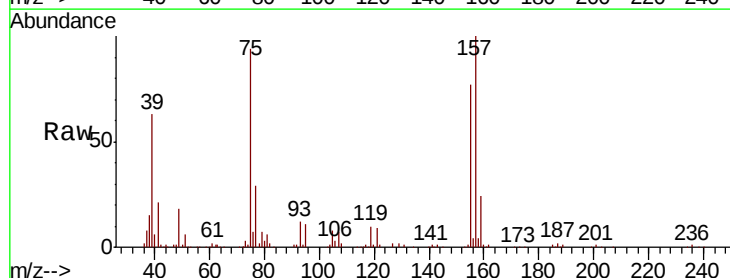
RT: 13.00 min Scan# 1943

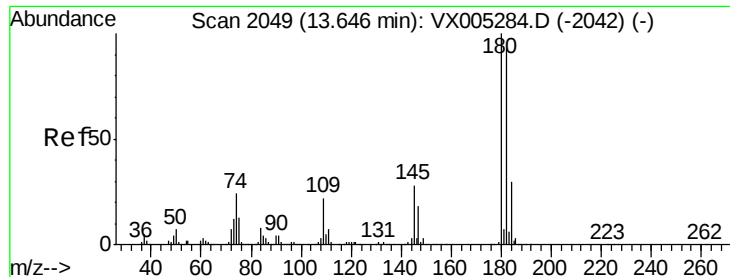
Delta R.T. -0.00 min

Lab File: VX005512.D

Acq: 23 Oct 2018 10:46

Tgt Ion:	75	Resp:	47913
Ion Ratio	Lower	Upper	
75	100		
155	89.0	48.0	144.2
157	114.3	61.4	184.1





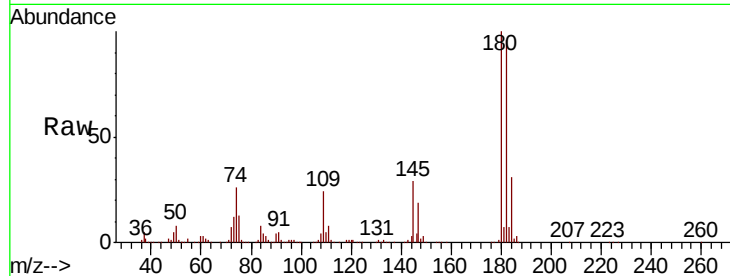
#93
 1,2,4-Trichlorobenzene
 Concen: 50.171 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Instrument :
 MSVOA_X
 ClientSampleId :
 PA-SW-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100	175774		
182	96.4	48.4	145.0	
145	28.4	14.3	42.9	

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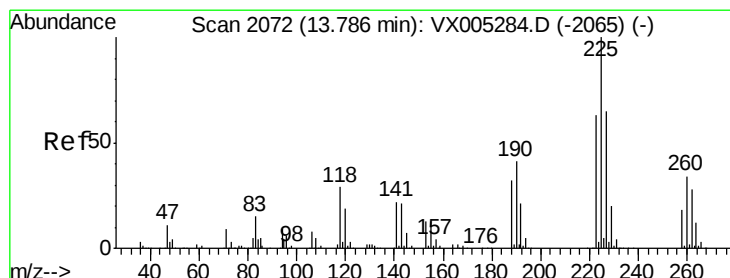
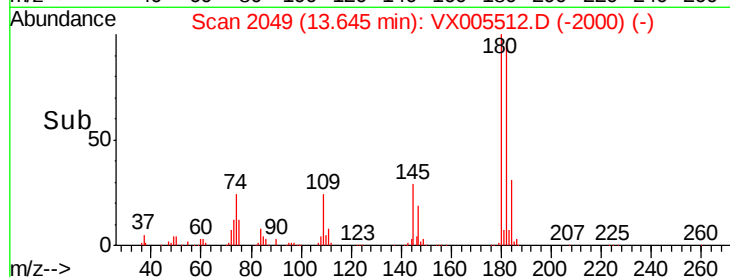
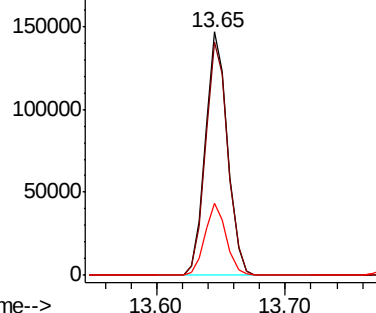


Abundance

Ion 179.80 (179.50 to 180.50): V

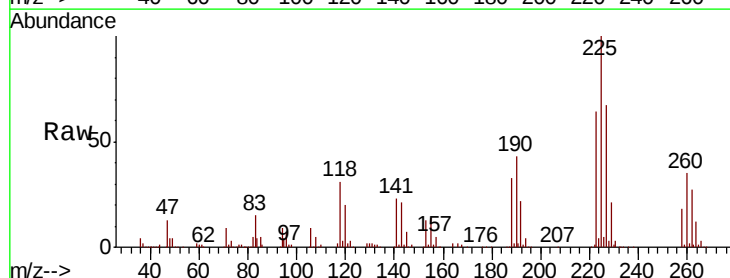
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 42.766 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VX005512.D
 Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	79133		
223	64.1	30.1	90.5	
227	64.6	30.8	92.4	

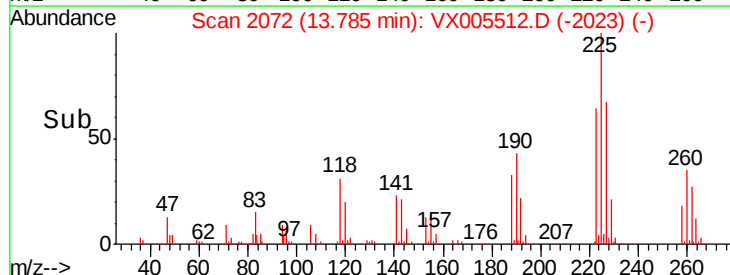
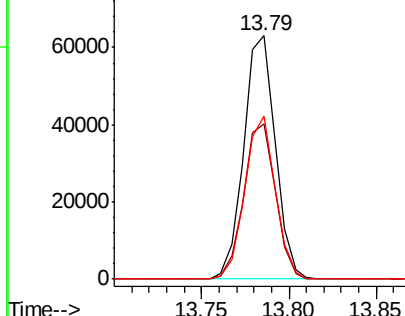


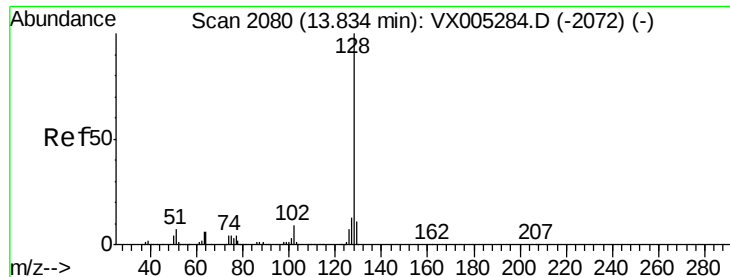
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





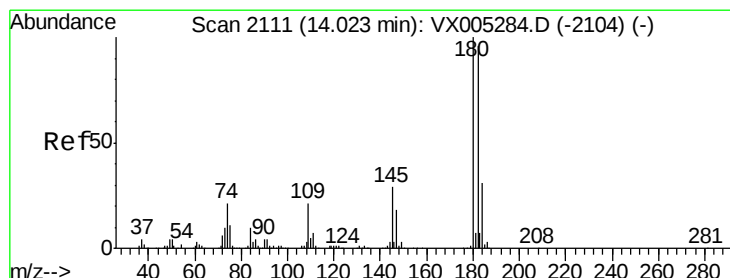
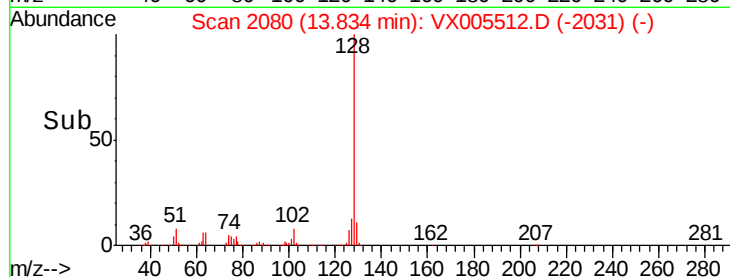
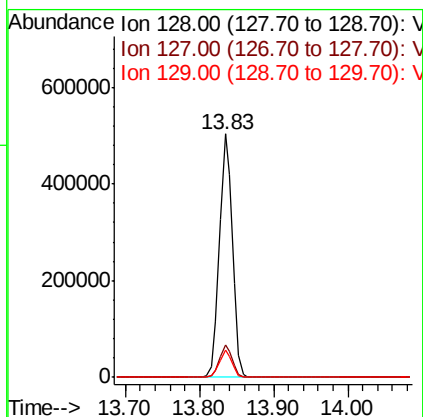
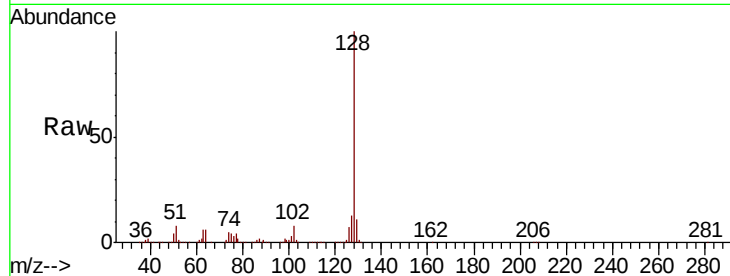
#95
Naphthalene
Concen: 59.182 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Instrument :
MSVOA_X
ClientSampleId :
PA-SW-01MSD

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.8	8.6	12.8

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#96
1,2,3-Trichlorobenzene
Concen: 51.421 ug/l
RT: 14.02 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VX005512.D
Acq: 23 Oct 2018 10:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	48.5	145.6
145	30.1	14.9	44.9

