

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082118\
 Data File : VX004168.D
 Acq On : 21 Aug 2018 11:52
 Operator : JC/MD
 Sample : VX0821WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/22/2018 11:16:49 AM

Quant Time: Aug 22 01:12:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	310987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	437514	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	423825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	246183	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	195934	44.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.44%	
35) Dibromofluoromethane	5.50	113	165306	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	
50) Toluene-d8	8.71	98	636516	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
62) 4-Bromofluorobenzene	11.13	95	229479	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	60724	20.06	ug/l	98
3) Chloromethane	1.32	50	74782	20.13	ug/l	100
4) Vinyl Chloride	1.40	62	81054	20.17	ug/l	98
5) Bromomethane	1.64	94	43768	21.39	ug/l	98
6) Chloroethane	1.72	64	57344	20.64	ug/l	99
7) Trichlorofluoromethane	1.93	101	114685	20.34	ug/l	97
8) Diethyl Ether	2.18	74	49482	20.10	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	73671	20.94	ug/l	99
10) Methyl Iodide	2.51	142	56402	18.52	ug/l	99
11) Tert butyl alcohol	3.06	59	83336	94.45	ug/l	99
12) 1,1-Dichloroethene	2.37	96	66947	20.46	ug/l	96
13) Acrolein	2.29	56	51277	92.85	ug/l	98
14) Allyl chloride	2.73	41	124526	20.00	ug/l	96
15) Acrylonitrile	3.14	53	217961	99.07	ug/l	99
16) Acetone	2.44	43	245946	107.96	ug/l	99
17) Carbon Disulfide	2.57	76	174268	18.78	ug/l	99
18) Methyl Acetate	2.78	43	110543	21.84	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	235796	20.46	ug/l	99
20) Methylene Chloride	2.86	84	79220	20.92	ug/l	99
21) trans-1,2-Dichloroethene	3.16	96	73860	19.88	ug/l	100
22) Diisopropyl ether	3.87	45	246217	20.19	ug/l	99
23) Vinyl Acetate	3.82	43	1024152	102.22	ug/l	99
24) 1,1-Dichloroethane	3.69	63	141207	20.44	ug/l	99
25) 2-Butanone	4.70	43	355809	95.99	ug/l	99
26) 2,2-Dichloropropane	4.57	77	111677	20.33	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	84261	20.17	ug/l	98
28) Bromochloromethane	5.01	49	61017	19.25	ug/l	100
29) Tetrahydrofuran	5.15	42	174201	91.99	ug/l	99
30) Chloroform	5.21	83	141139	20.93	ug/l	99
31) Cyclohexane	5.57	56	118010	19.48	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	117841	20.91	ug/l	99
36) 1,1-Dichloropropene	5.79	75	106232	21.34	ug/l	99
37) Ethyl Acetate	4.85	43	105378	19.44	ug/l	99
38) Carbon Tetrachloride	5.78	117	102351	21.16	ug/l	98

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Quant Time: Aug 22 01:12:56 2018
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 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	120520	21.34	ug/l	99
40) Benzene	6.14	78	322514	21.57	ug/l	100
41) Methacrylonitrile	5.05	41	59947	19.74	ug/l	99
42) 1,2-Dichloroethane	6.19	62	110300	21.08	ug/l	100
43) Isopropyl Acetate	6.46	43	159469	19.96	ug/l	99
44) Trichloroethene	7.21	130	87067	21.45	ug/l	92
45) 1,2-Dichloropropane	7.51	63	80841	21.12	ug/l	99
46) Dibromomethane	7.66	93	53638	21.45	ug/l	99
47) Bromodichloromethane	7.90	83	100911	21.30	ug/l	98
48) Methyl methacrylate	7.77	41	83650	20.79	ug/l	98
49) 1,4-Dioxane	7.75	88	36453	402.48	ug/l #	95
51) 4-Methyl-2-Pentanone	8.65	43	698087	106.54	ug/l	99
52) Toluene	8.78	92	208645	22.07	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	111823	21.85	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	124343	21.94	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	82952	21.25	ug/l	99
56) Ethyl methacrylate	9.18	69	113268	21.33	ug/l	99
57) 1,3-Dichloropropane	9.37	76	139322	21.51	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	303783	112.37	ug/l	100
59) 2-Hexanone	9.49	43	529915	107.46	ug/l	99
60) Dibromochloromethane	9.59	129	80343	21.38	ug/l	100
61) 1,2-Dibromoethane	9.67	107	85138	21.39	ug/l	100
64) Tetrachloroethene	9.34	164	83068	20.68	ug/l	95
65) Chlorobenzene	10.14	112	229812	20.99	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.22	131	80799	21.64	ug/l	99
67) Ethyl Benzene	10.25	91	384701	22.19	ug/l	98
68) m/p-Xylenes	10.36	106	310335	45.71	ug/l	97
69) o-Xylene	10.70	106	140965	21.73	ug/l	94
70) Styrene	10.71	104	240471	22.02	ug/l	98
71) Bromoform	10.86	173	58230	19.67	ug/l #	100
73) Isopropylbenzene	11.02	105	381737	22.91	ug/l	97
74) N-amyl acetate	6.46	43	159469	20.35	ug/l #	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	126242	21.70	ug/l	98
76) 1,2,3-Trichloropropane	11.30	75	116456m	23.59	ug/l	
77) Bromobenzene	11.26	156	104229	22.70	ug/l	100
78) n-propylbenzene	11.36	91	446460	23.95	ug/l	99
79) 2-Chlorotoluene	11.42	91	269456	23.72	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	308181	22.59	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	32908	20.63	ug/l	97
82) 4-Chlorotoluene	11.51	91	310930	23.15	ug/l	100
83) tert-Butylbenzene	11.77	119	312616	22.73	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	336608	23.83	ug/l	99
85) sec-Butylbenzene	11.94	105	388549	24.14	ug/l	100
86) p-Isopropyltoluene	12.07	119	352879	24.21	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	192614	21.99	ug/l	98
88) 1,4-Dichlorobenzene	12.10	146	200257	22.21	ug/l	99
89) n-Butylbenzene	12.39	91	294132	25.61	ug/l	99
90) Hexachloroethane	12.60	117	49038	22.49	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	195825	24.79	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	22674	22.17	ug/l	98

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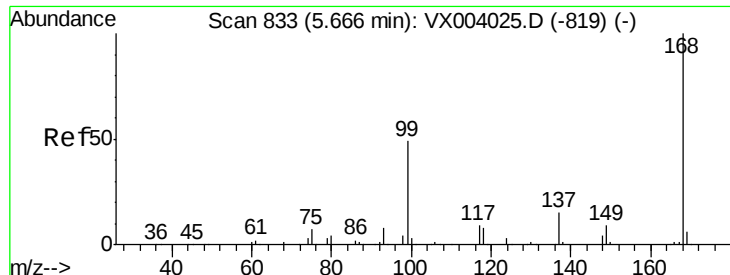
Manual Integrations
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MMDadoda
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	126329	23.39	ug/l	97
94) Hexachlorobutadiene	13.78	225	60134	22.22	ug/l	99
95) Naphthalene	13.83	128	365969	21.92	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	130778	22.21	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion:168 Resp: 310987

Ion Ratio Lower Upper

168 100

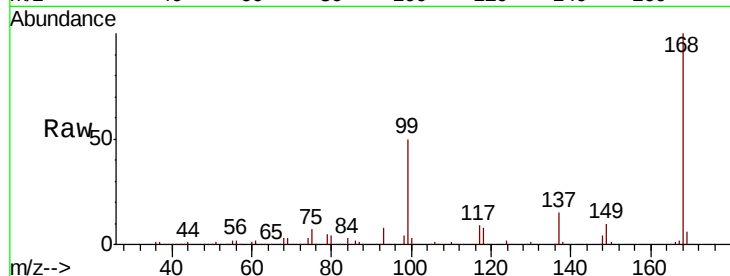
99 50.1 40.1 60.1

Manual Integrations

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8/22/2018 11:16:49 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

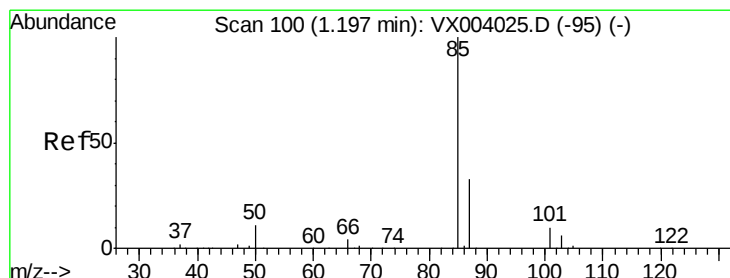
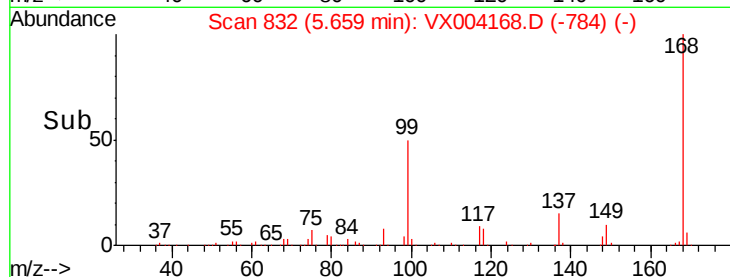
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 20.06 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX004168.D

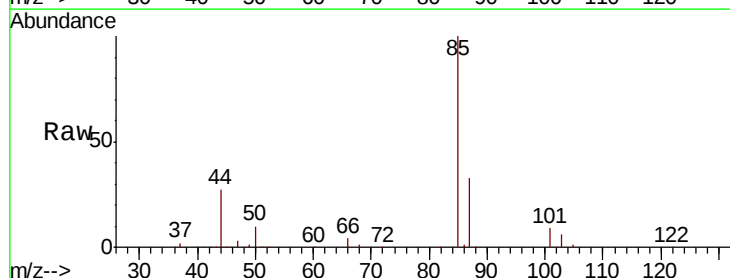
Acq: 21 Aug 2018 11:52

Tgt Ion: 85 Resp: 60724

Ion Ratio Lower Upper

85 100

87 33.3 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

50000

40000

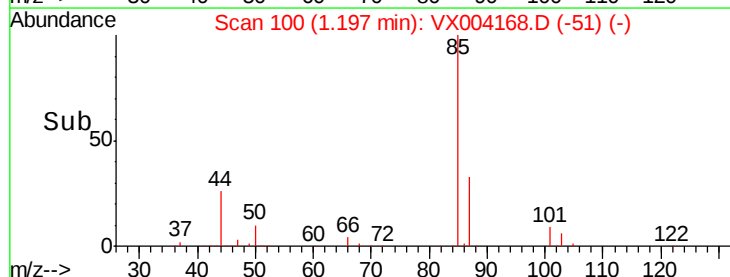
30000

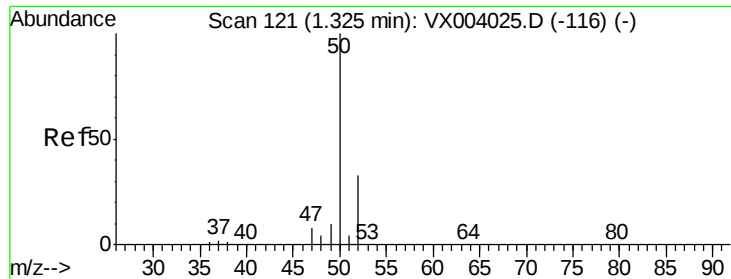
20000

10000

0

Time--> 1.15 1.20 1.25 1.30





#3

Chloromethane

Concen: 20.13 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 50 Resp: 74782

Ion Ratio Lower Upper

50 100

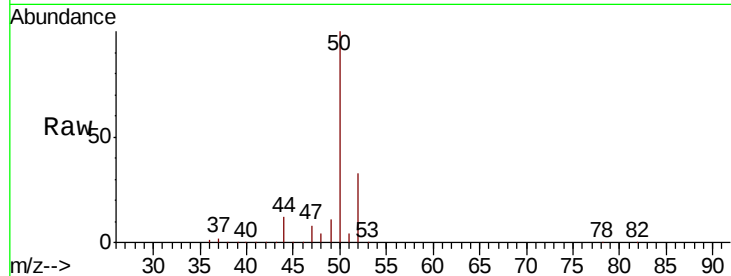
52 33.2 26.6 39.8

Manual Integrations

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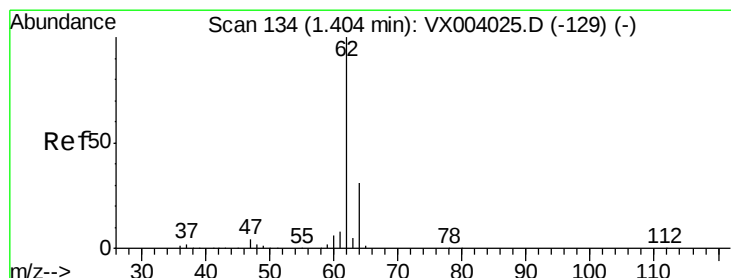
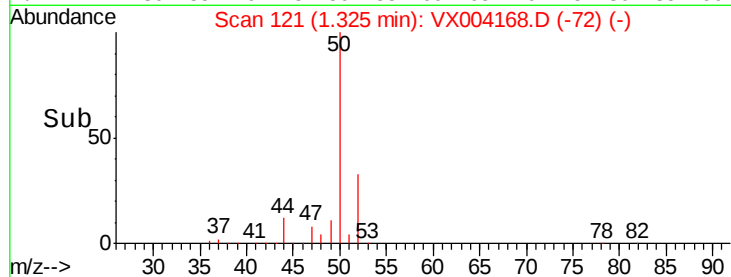
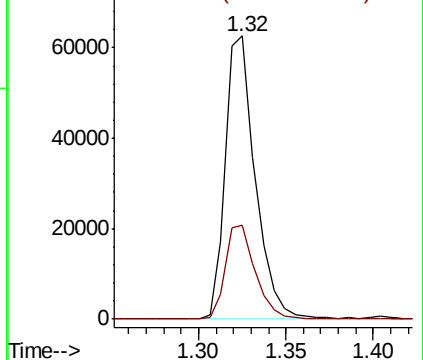
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 20.17 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004168.D

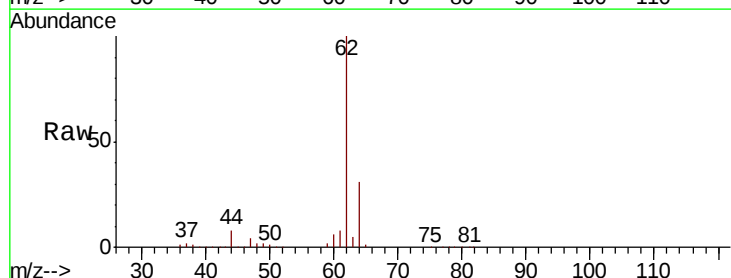
Acq: 21 Aug 2018 11:52

Tgt Ion: 62 Resp: 81054

Ion Ratio Lower Upper

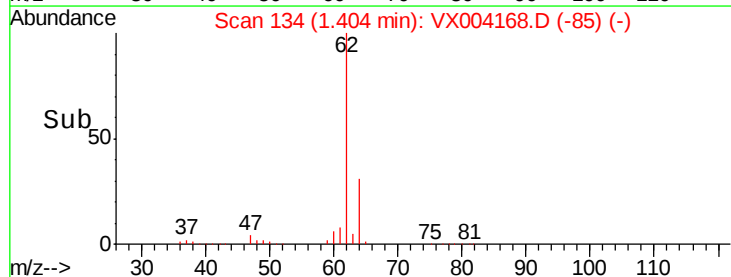
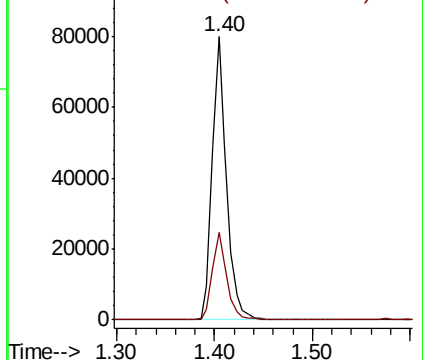
62 100

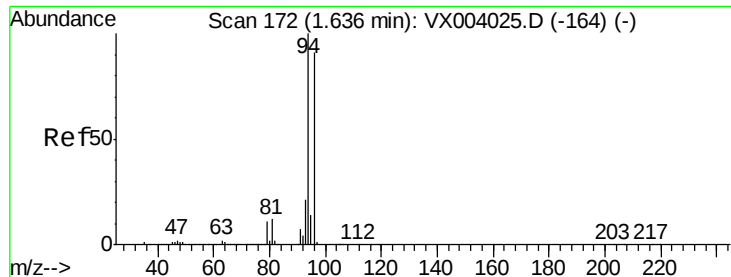
64 31.1 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 21.39 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 94 Resp: 43768

Ion Ratio Lower Upper

94 100

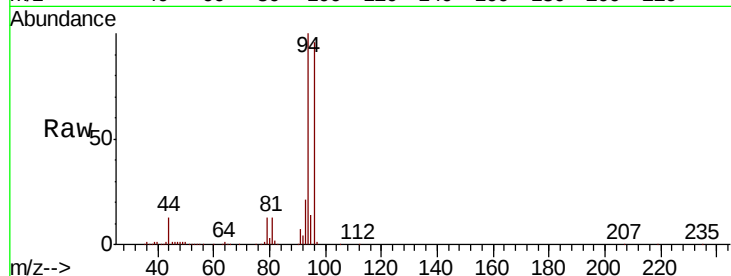
96 95.7 75.2 112.8

Manual Integrations

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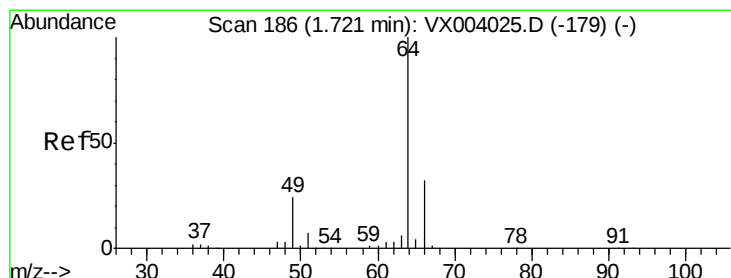
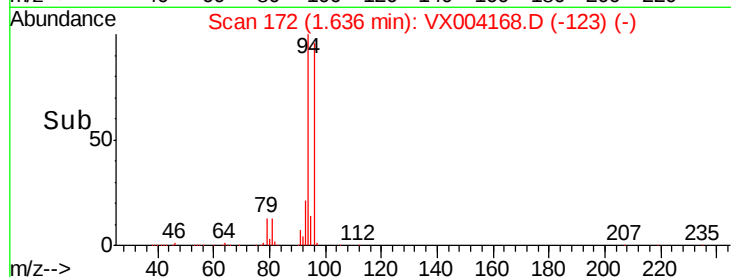
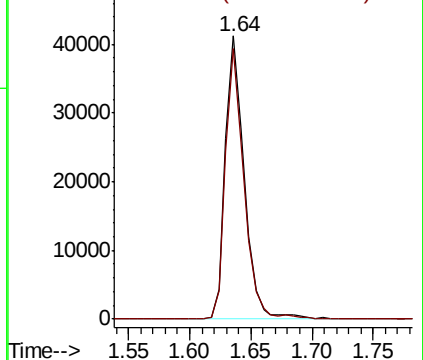
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 20.64 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX004168.D

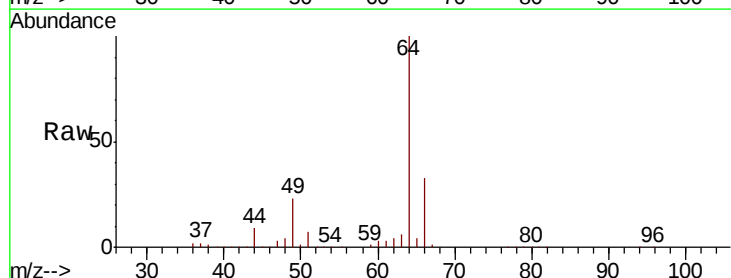
Acq: 21 Aug 2018 11:52

Tgt Ion: 64 Resp: 57344

Ion Ratio Lower Upper

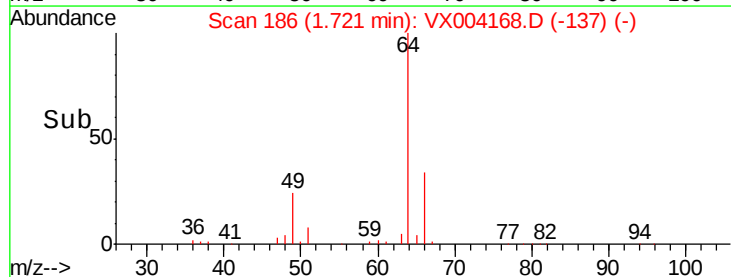
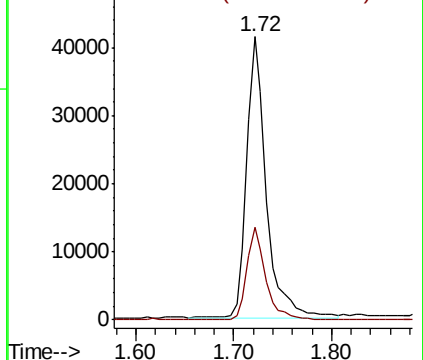
64 100

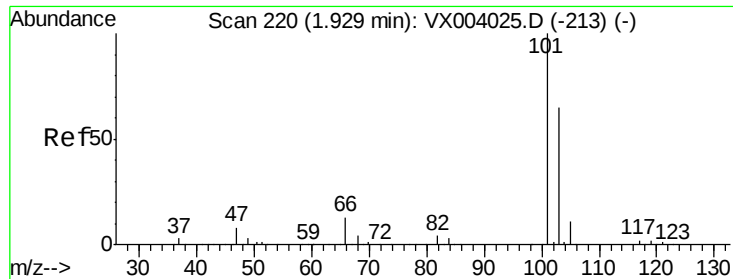
66 32.7 26.5 39.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

Trichlorofluoromethane

Concen: 20.34 ug/l

RT: 1.93 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion:101 Resp: 114685

Ion Ratio Lower Upper

101 100

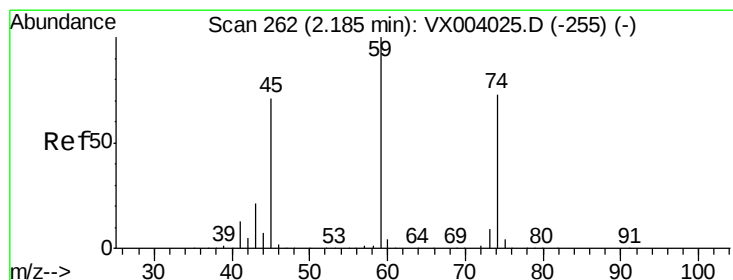
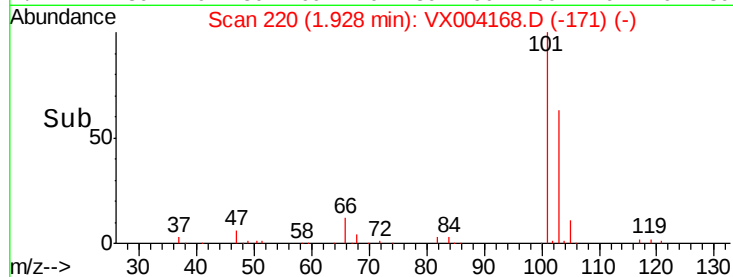
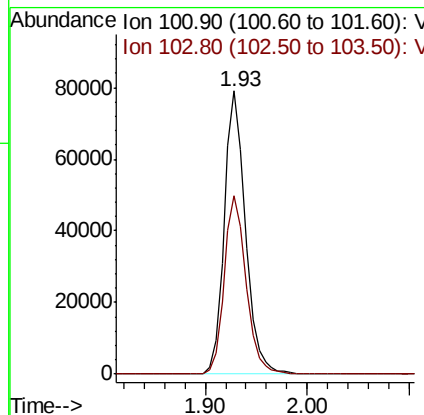
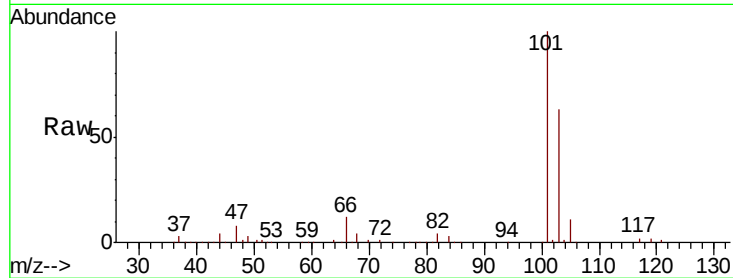
103 63.1 52.3 78.5

Manual Integrations

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8/22/2018 11:16:49 AM



#8

Diethyl Ether

Concen: 20.10 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.00 min

Lab File: VX004168.D

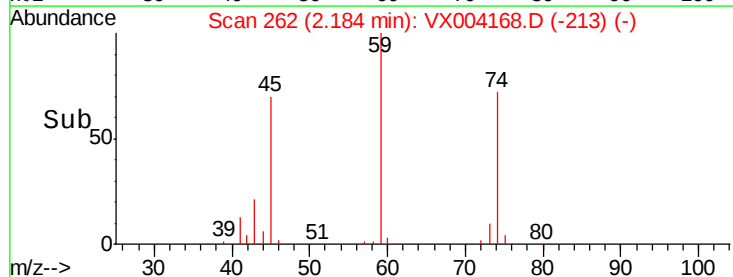
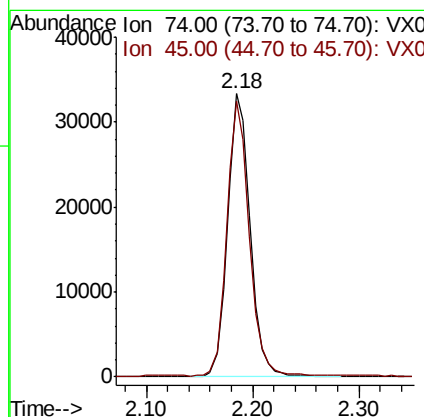
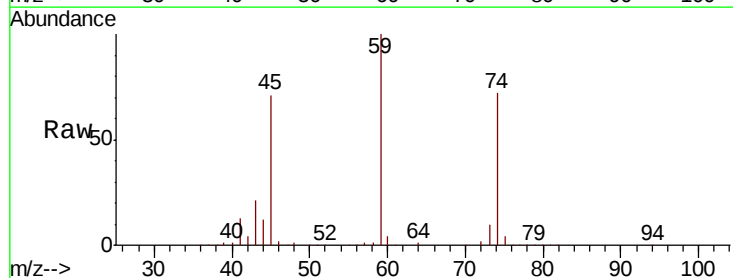
Acq: 21 Aug 2018 11:52

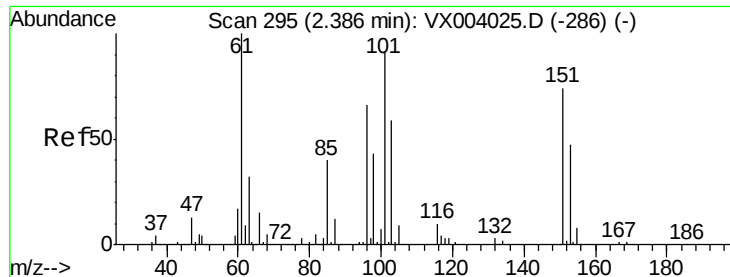
Tgt Ion: 74 Resp: 49482

Ion Ratio Lower Upper

74 100

45 95.8 48.3 144.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.94 ug/l

RT: 2.38 min Scan# 294

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

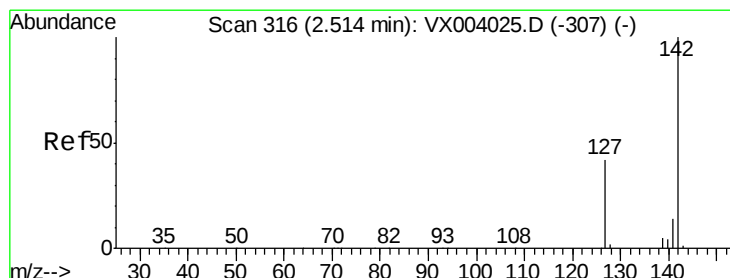
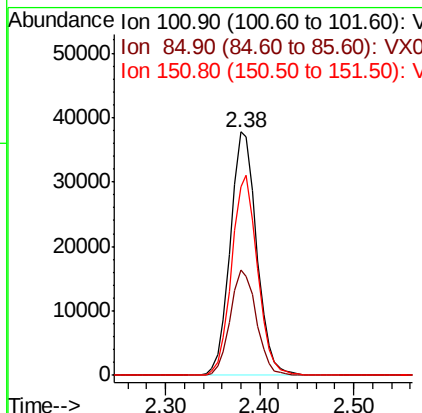
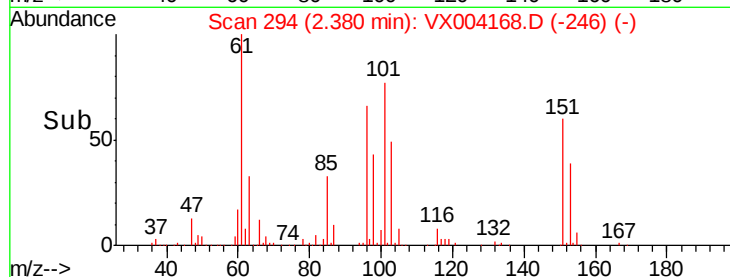
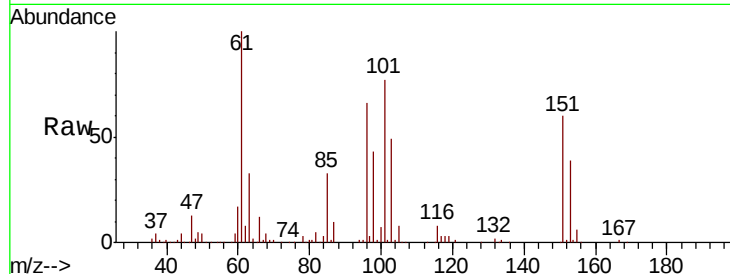
ClientSampleId :

VX0821WBS01

Tot Ion:	101	Resp:	73671
Ion Ratio	Lower	Upper	
101	100		
85	42.7	34.2	51.4
151	80.4	65.0	97.4

Manual Integrations
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#10

Methyl Iodide

Concen: 18.52 ug/l

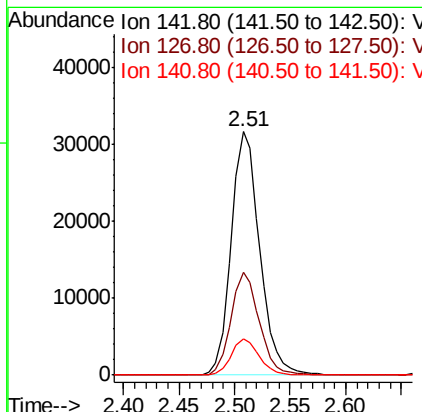
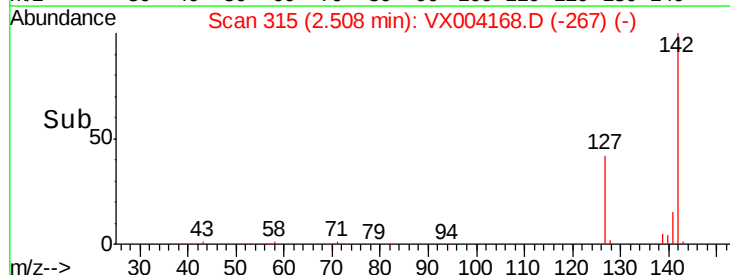
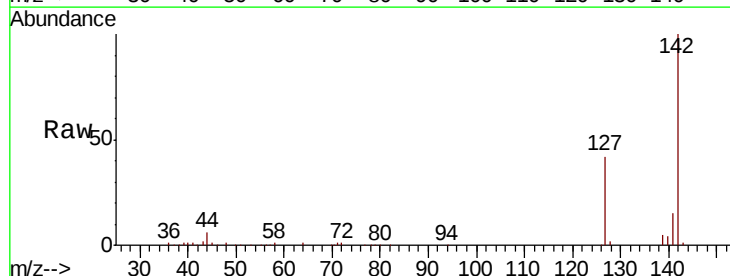
RT: 2.51 min Scan# 315

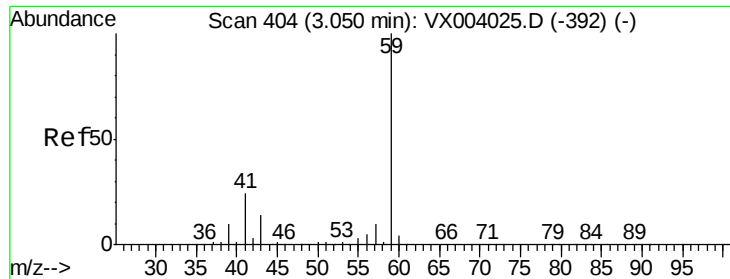
Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Tgt Ion:	142	Resp:	56402
Ion Ratio	Lower	Upper	
142	100		
127	41.8	33.1	49.7
141	14.6	11.1	16.7





#11

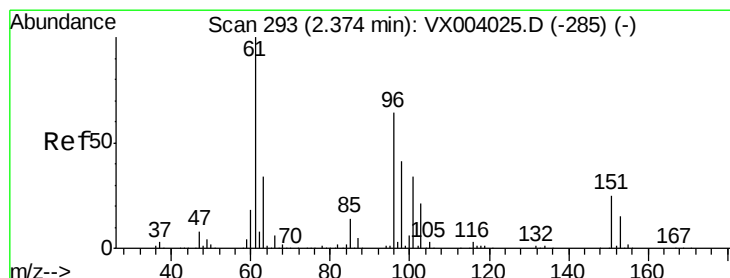
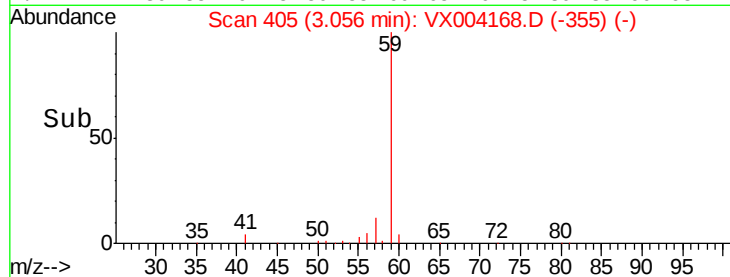
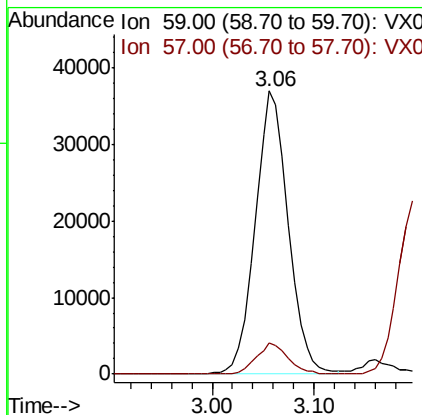
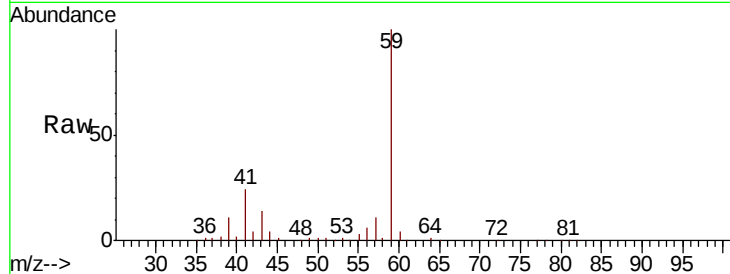
Tert butyl alcohol
 Concen: 94.45 ug/l
 RT: 3.06 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ion	Ratio	Lower	Upper
59.00	59	100		
57.00	57	10.6	8.1	12.1

Manual Integrations
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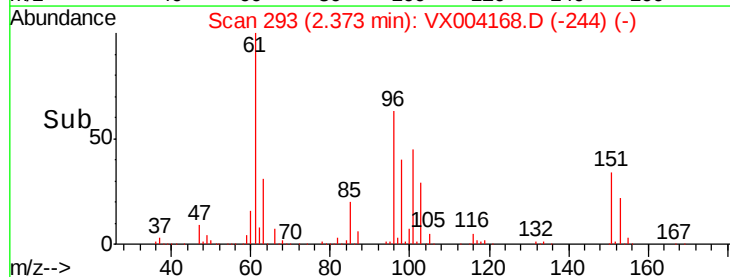
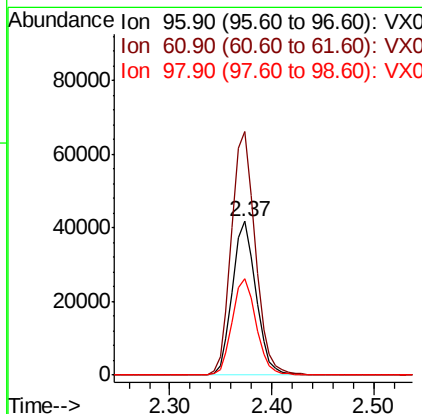
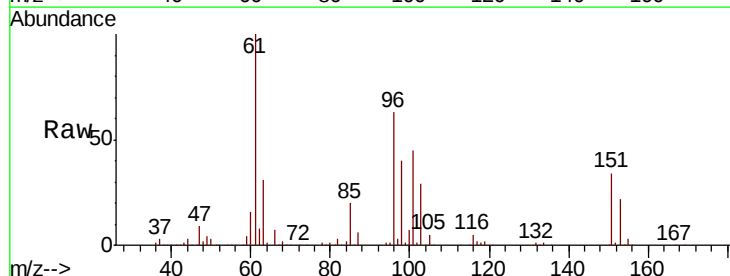
MMDadoda
 8/22/2018 11:16:49 AM

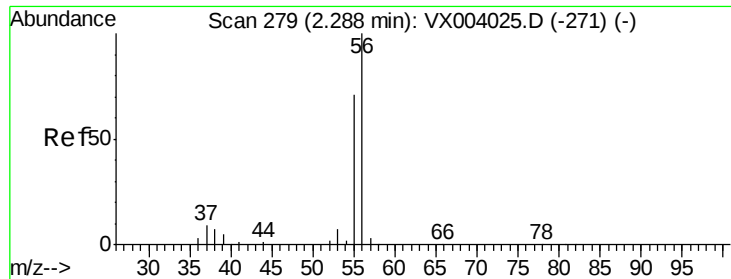


#12

1,1-Dichloroethene
 Concen: 20.46 ug/l
 RT: 2.37 min Scan# 293
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ion	Ratio	Lower	Upper
96.00	96	100		
61.00	61	158.6	131.3	196.9
98.00	98	62.9	51.8	77.6





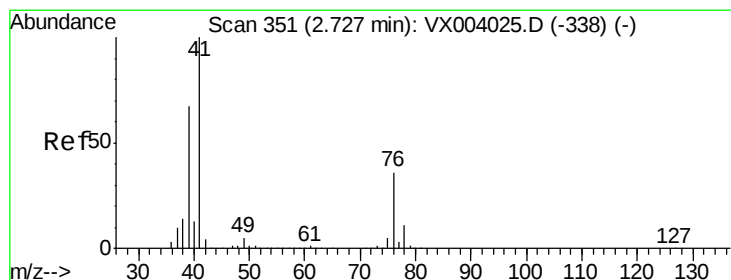
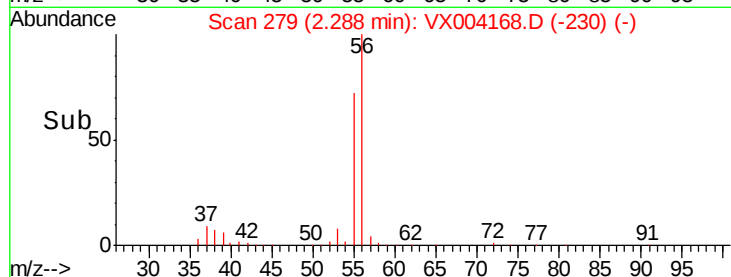
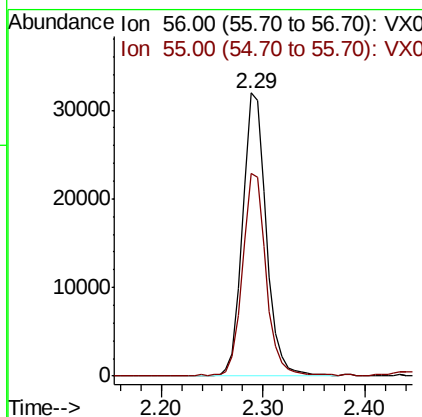
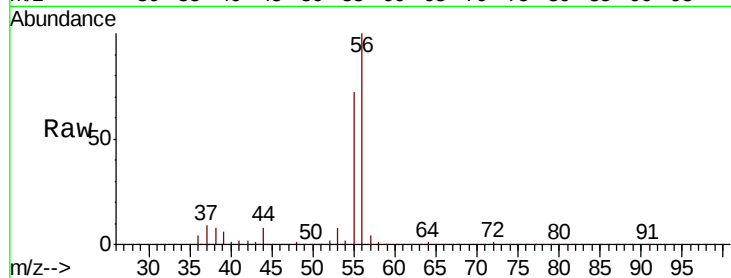
#13
Acrolein
Concen: 92.85 ug/l
RT: 2.29 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	56	Resp	51277
Ion Ratio	100	Lower	Upper
55	71.4	56.1	84.1

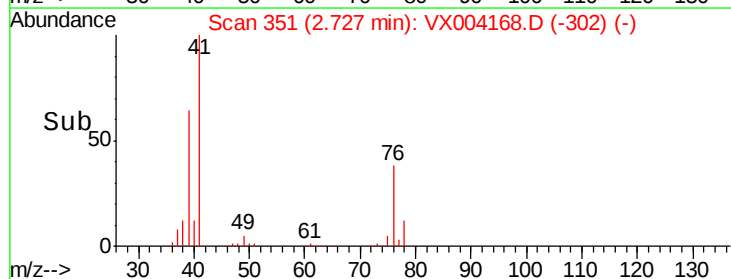
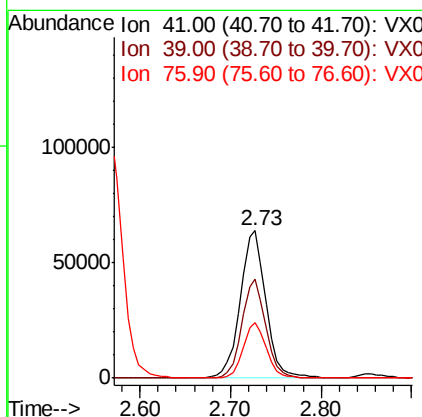
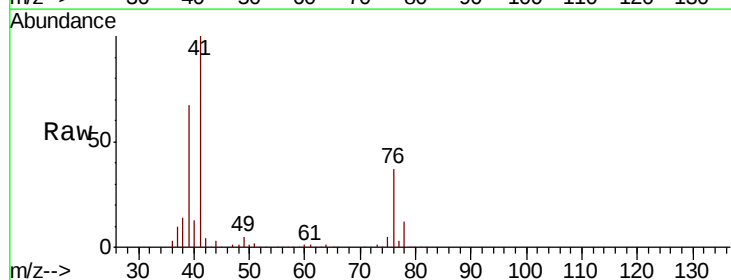
Manual Integrations
APPROVED

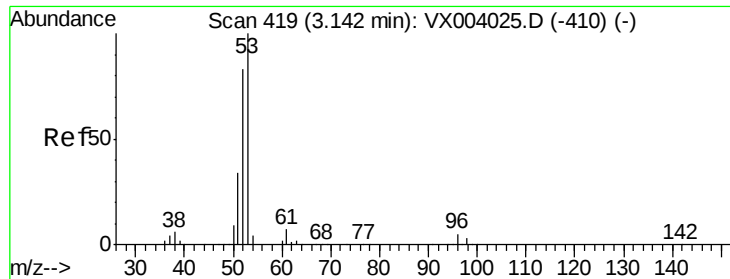
MMDadoda
8/22/2018 11:16:49 AM



#14
Allyl chloride
Concen: 20.00 ug/l
RT: 2.73 min Scan# 351
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	41	Resp	124526
Ion Ratio	100	Lower	Upper
39	62.4	47.4	71.0
76	34.2	26.0	39.0





#15

Acrylonitrile

Concen: 99.07 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

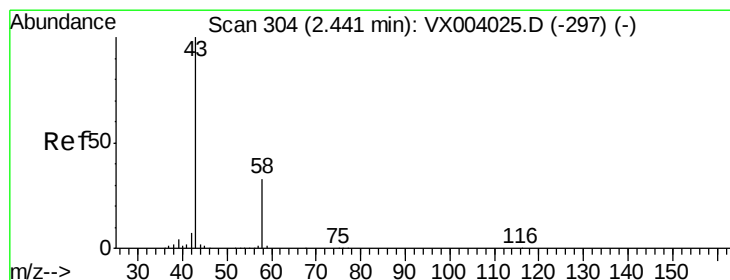
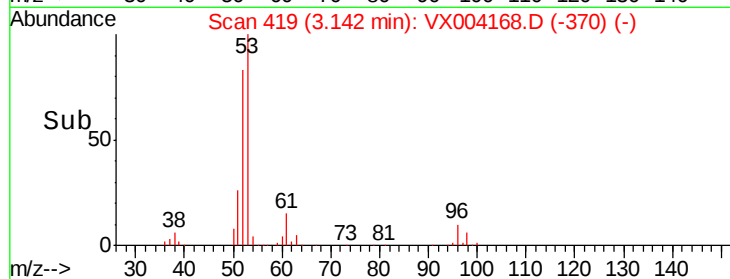
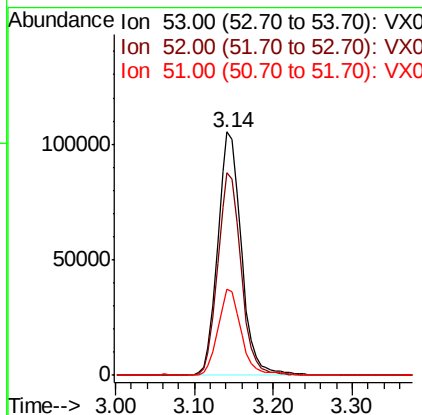
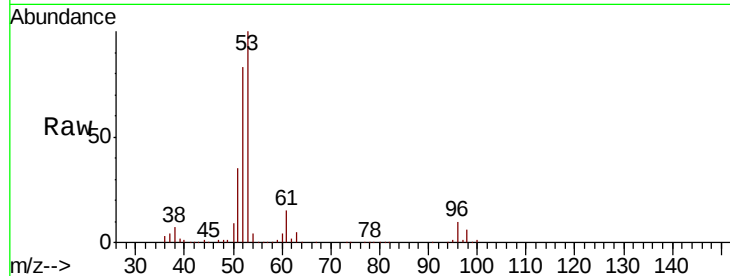
ClientSampled :

VX0821WBS01

Tot Ion:	53	Resp:	217961
Ion Ratio	Lower	Upper	
53	100		
52	82.8	65.3	97.9
51	35.2	27.9	41.9

Manual Integrations
APPROVED

MMDadoda
8/22/2018 11:16:49 AM



#16

Acetone

Concen: 107.96 ug/l

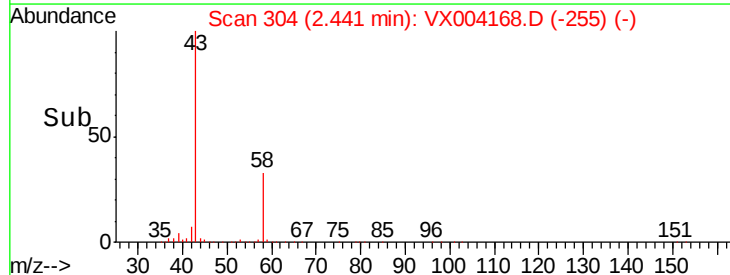
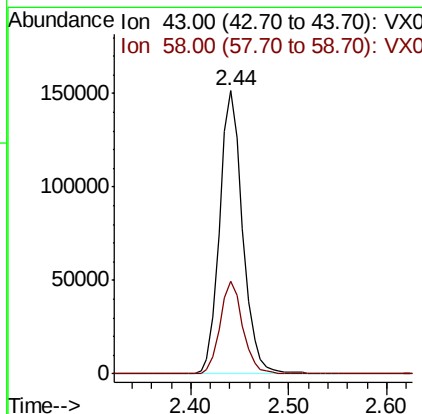
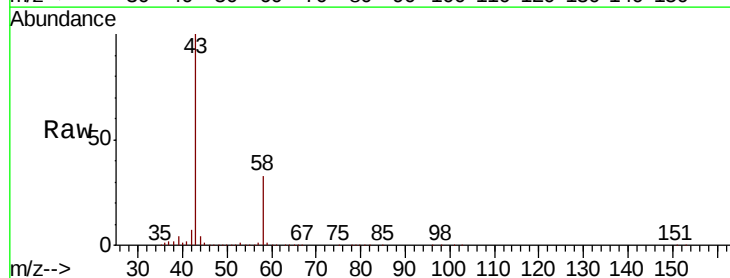
RT: 2.44 min Scan# 304

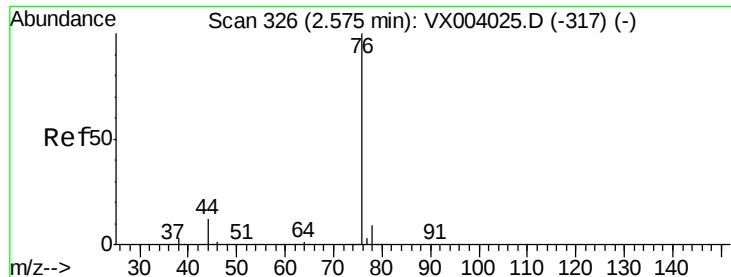
Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Tgt Ion:	43	Resp:	245946
Ion Ratio	Lower	Upper	
43	100		
58	32.7	26.4	39.6





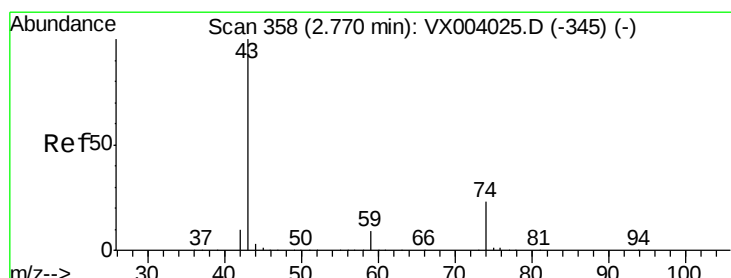
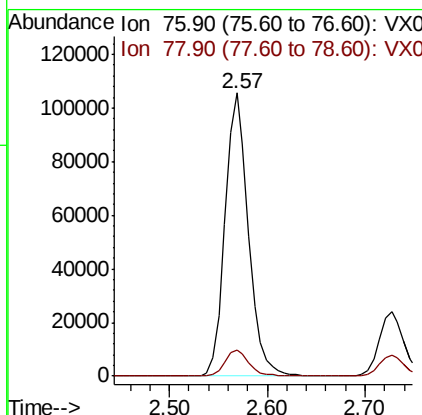
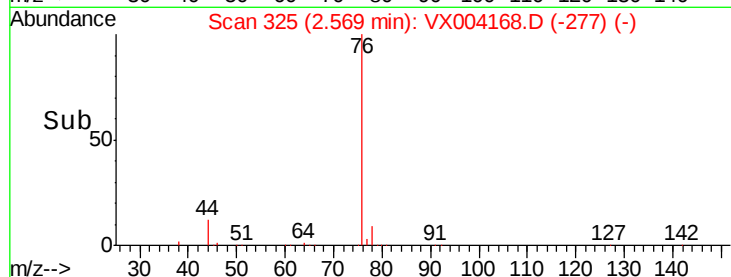
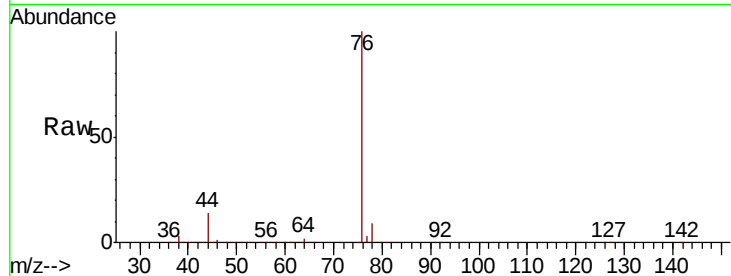
#17
Carbon Disulfide
Concen: 18.78 ug/l
RT: 2.57 min Scan# 325
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.5	11.3

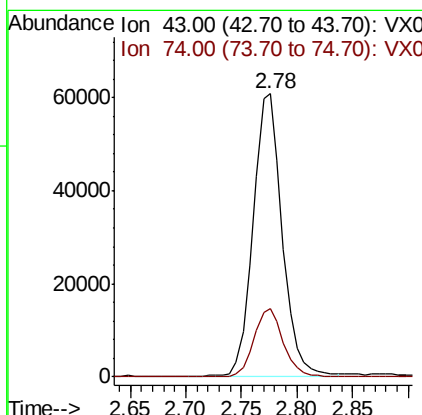
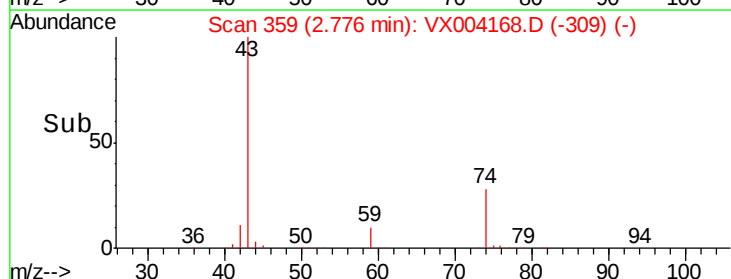
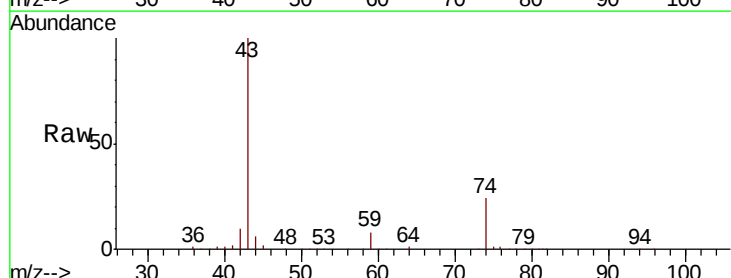
Manual Integrations
APPROVED

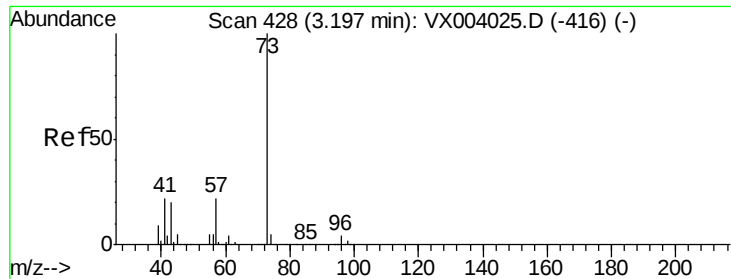
MMDadoda
8/22/2018 11:16:49 AM



#18
Methyl Acetate
Concen: 21.84 ug/l
RT: 2.78 min Scan# 359
Delta R.T. 0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	18.9	28.3





#19

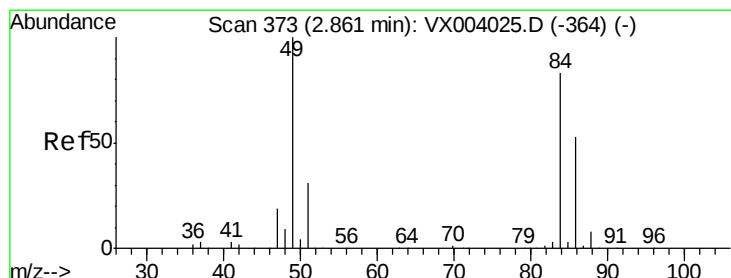
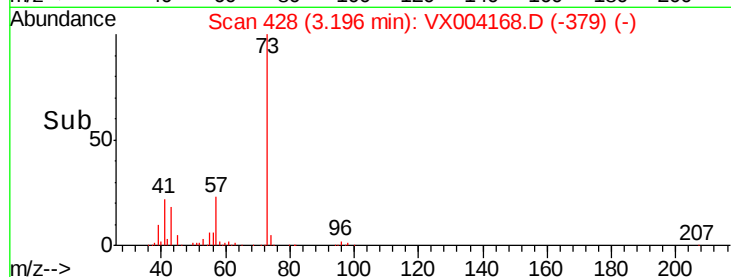
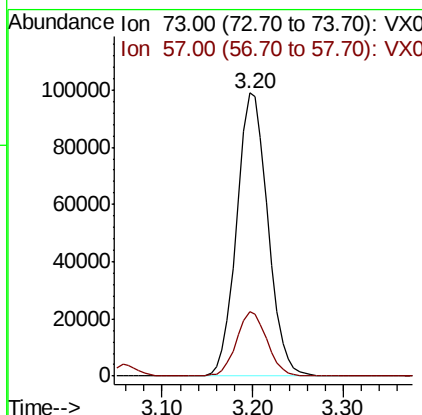
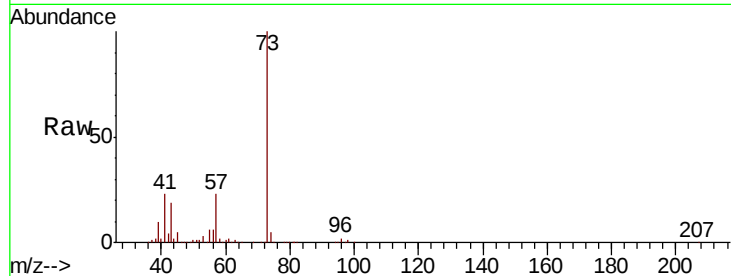
Methyl tert-butyl Ether
 Concen: 20.46 ug/l
 RT: 3.20 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.8	18.0	27.0

Manual Integrations
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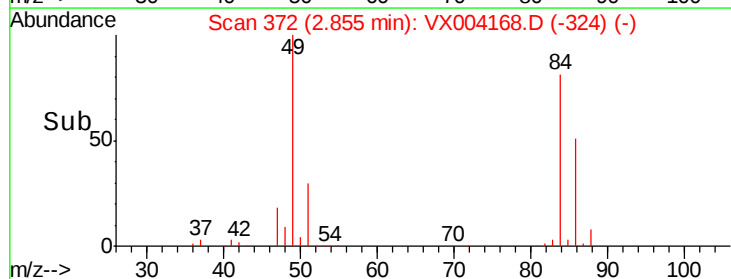
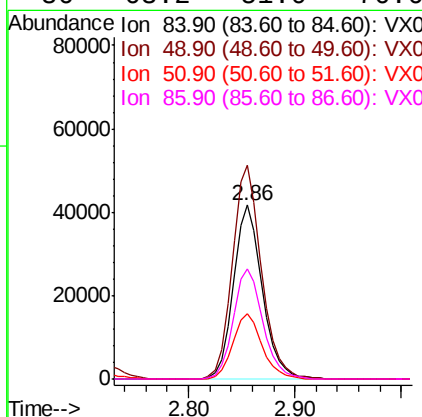
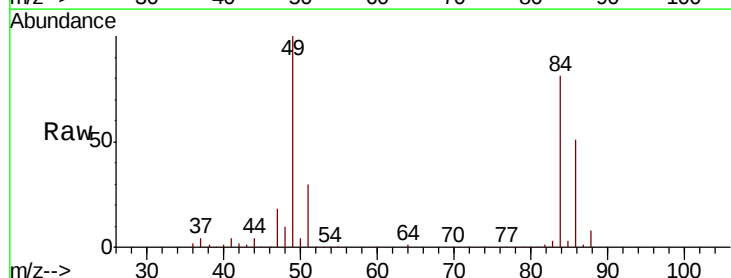
MMDadoda
 8/22/2018 11:16:49 AM

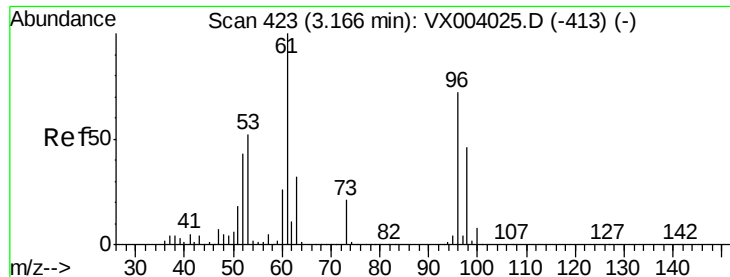


#20

Methylene Chloride
 Concen: 20.92 ug/l
 RT: 2.86 min Scan# 372
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.9	98.9	148.3
51	37.1	29.9	44.9
86	63.2	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 19.88 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 96 Resp: 73860

Ion Ratio Lower Upper

96 100

61 139.5 111.8 167.6

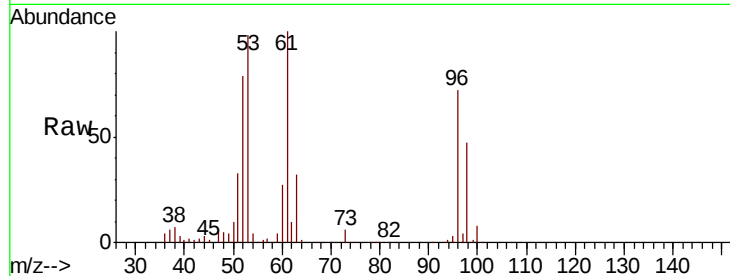
98 65.7 51.8 77.6

Manual Integrations

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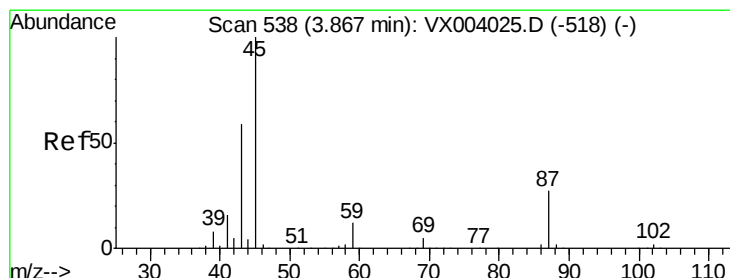
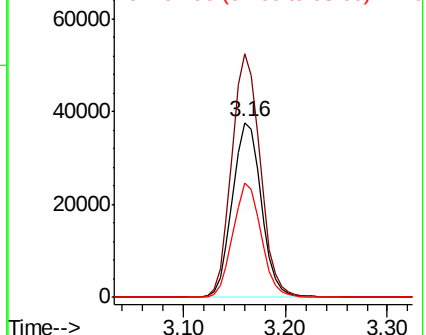
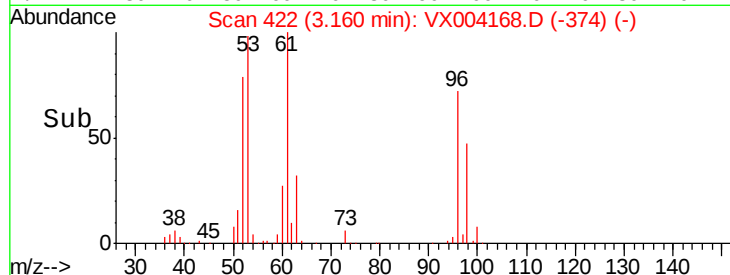
8/22/2018 11:16:49 AM



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 20.19 ug/l

RT: 3.87 min Scan# 538

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Tgt Ion: 45 Resp: 246217

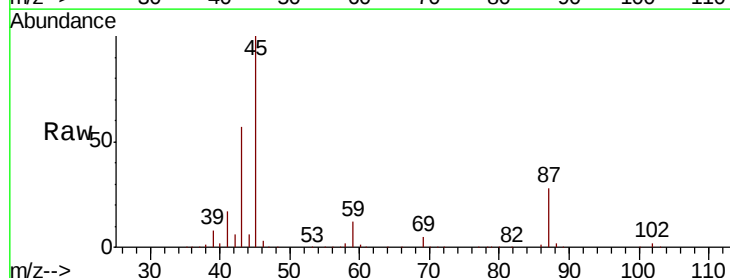
Ion Ratio Lower Upper

45 100

43 57.0 45.3 67.9

87 27.6 22.7 34.1

59 12.2 9.6 14.4

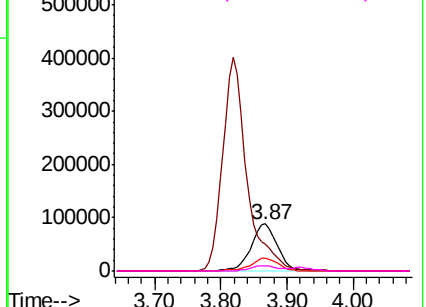
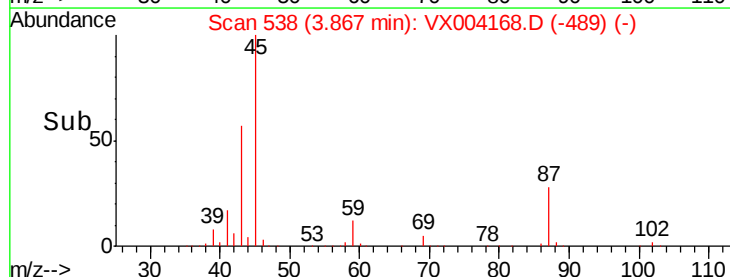


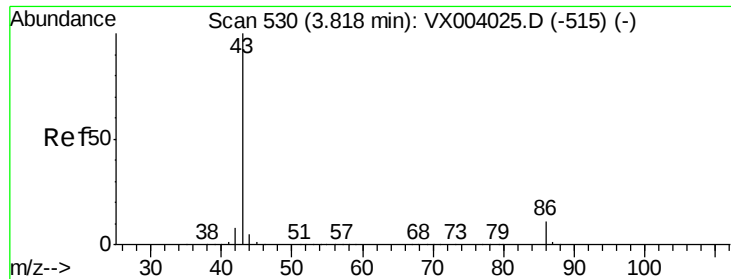
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 102.22 ug/l

RT: 3.82 min Scan# 530

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampled :

VX0821WBS01

Tot Ion: 43 Resp: 1024152

Ion Ratio Lower Upper

43 100

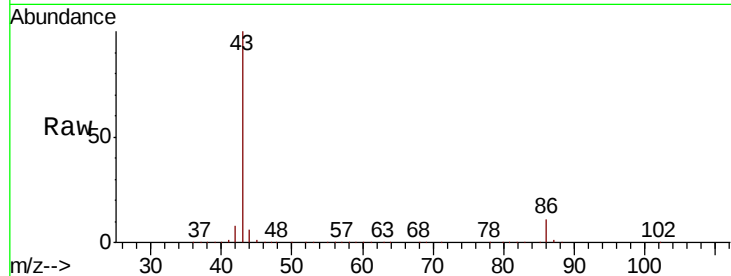
86 10.8 8.9 13.3

Manual Integrations

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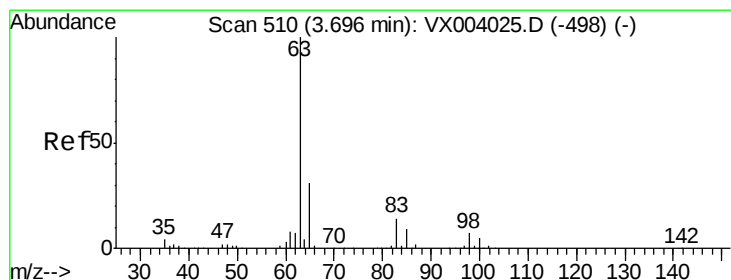
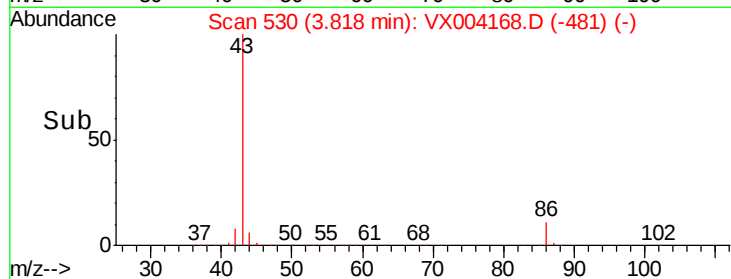
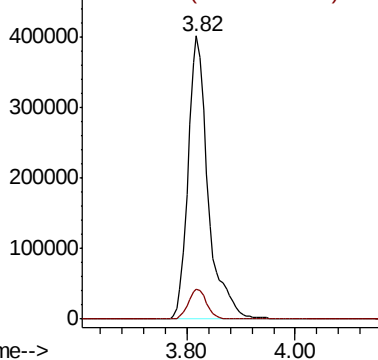
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 20.44 ug/l

RT: 3.69 min Scan# 509

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

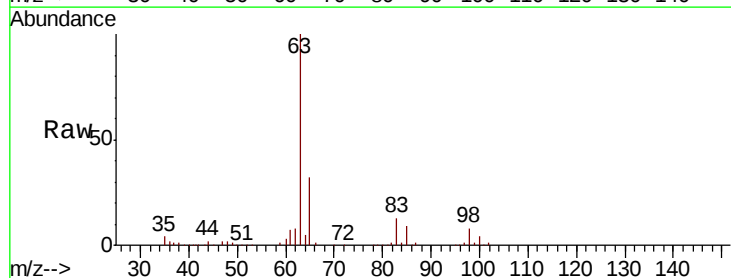
Tgt Ion: 63 Resp: 141207

Ion Ratio Lower Upper

63 100

98 7.5 3.5 10.5

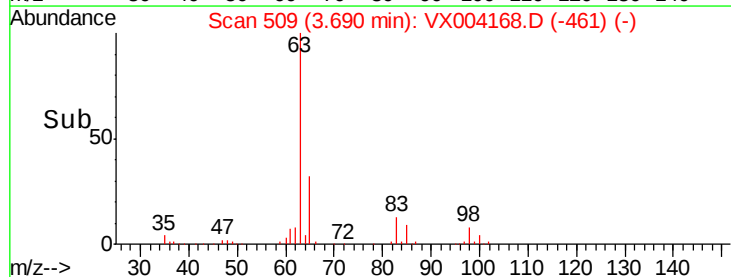
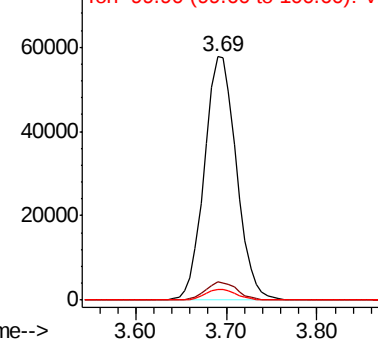
100 4.2 2.3 6.8

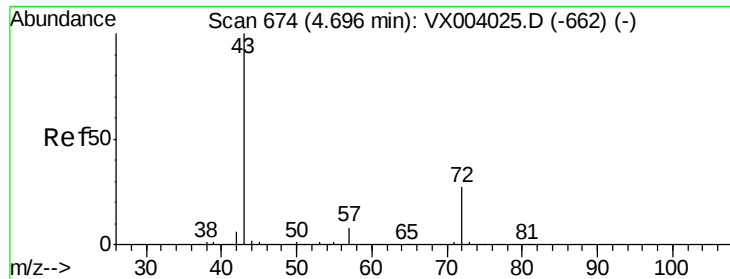


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 95.99 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 43 Resp: 355809

Ion Ratio Lower Upper

43 100

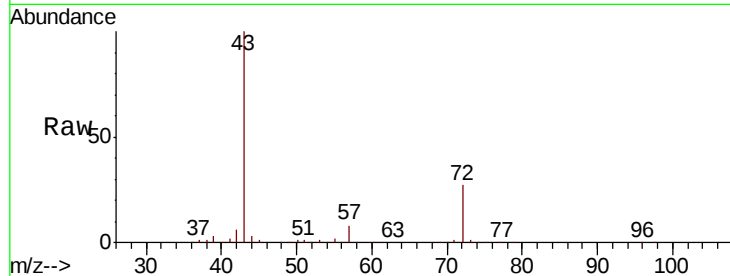
72 27.1 21.4 32.0

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

150000

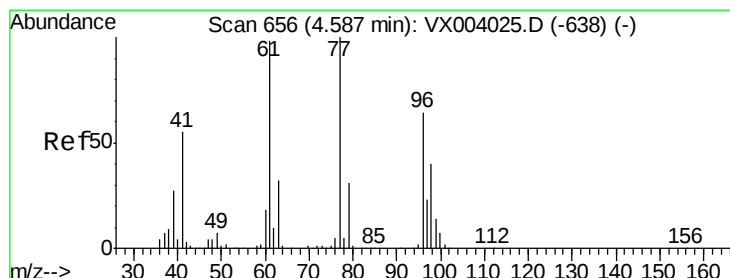
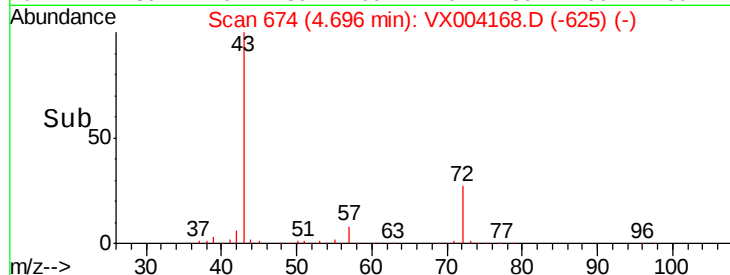
100000

50000

0

4.60 4.70 4.80

Time-->



#26

2,2-Dichloropropane

Concen: 20.33 ug/l

RT: 4.57 min Scan# 654

Delta R.T. -0.01 min

Lab File: VX004168.D

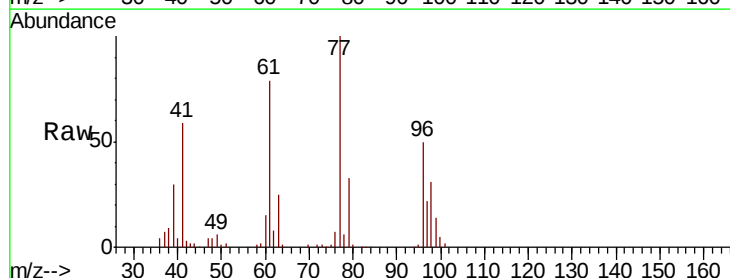
Acq: 21 Aug 2018 11:52

Tgt Ion: 77 Resp: 111677

Ion Ratio Lower Upper

77 100

97 23.4 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

40000

30000

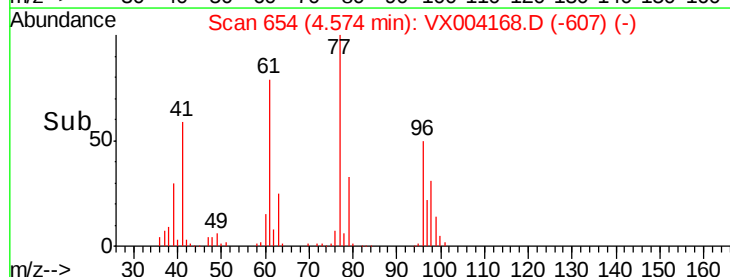
20000

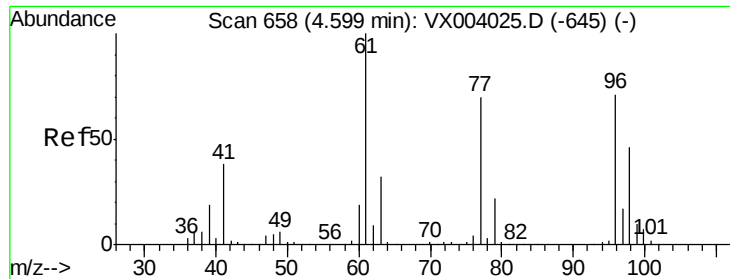
10000

0

4.50 4.60 4.70

Time-->





#27

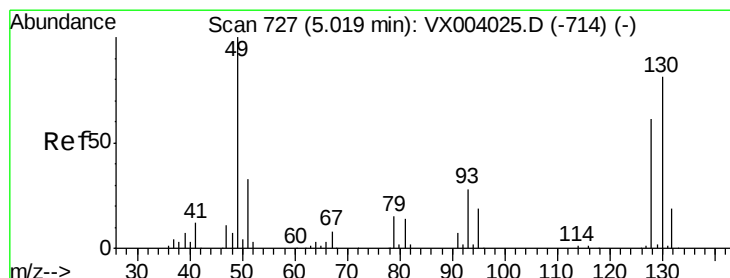
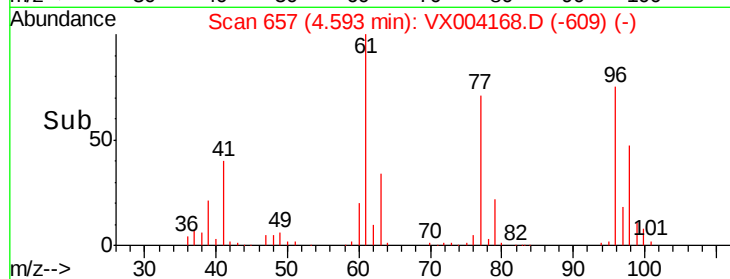
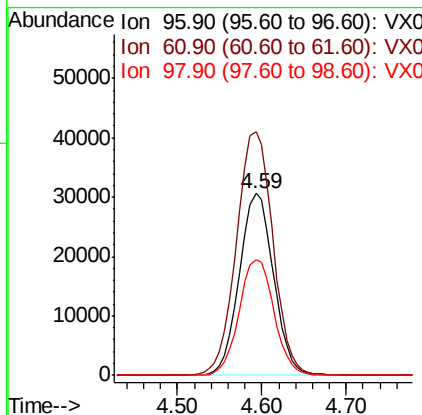
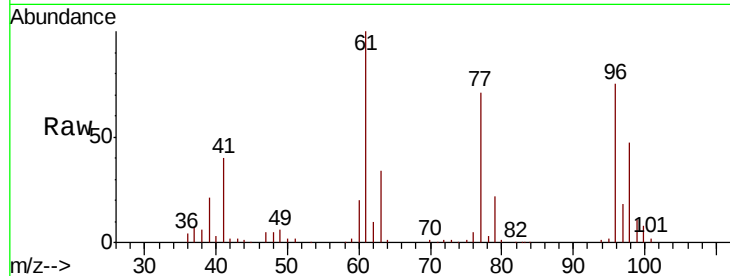
cis-1,2-Dichloroethene
Concen: 20.17 ug/l
RT: 4.59 min Scan# 657
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.0	0.0	293.0
98	64.8	0.0	131.8

Manual Integrations
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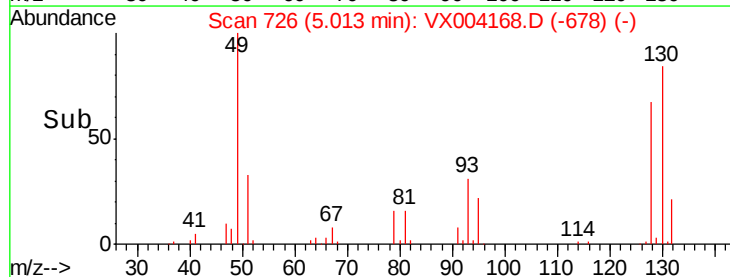
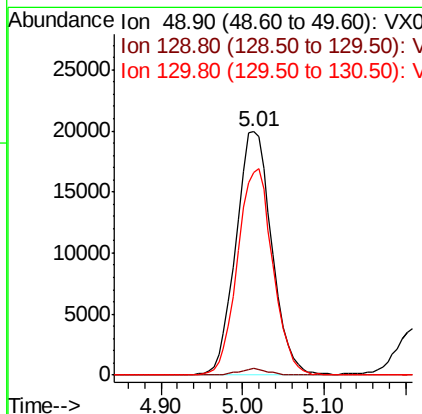
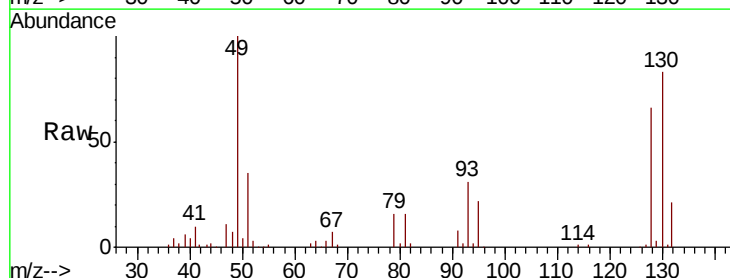
MMDadoda
8/22/2018 11:16:49 AM

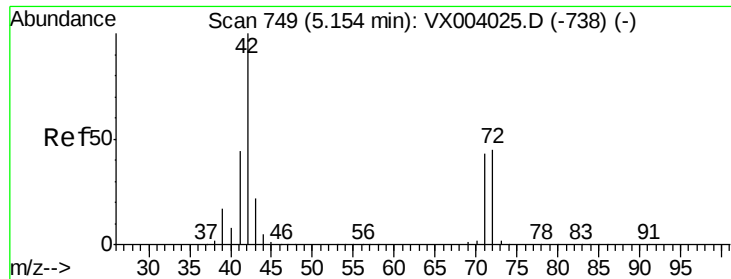


#28

Bromochloromethane
Concen: 19.25 ug/l
RT: 5.01 min Scan# 726
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.3	66.5	99.7





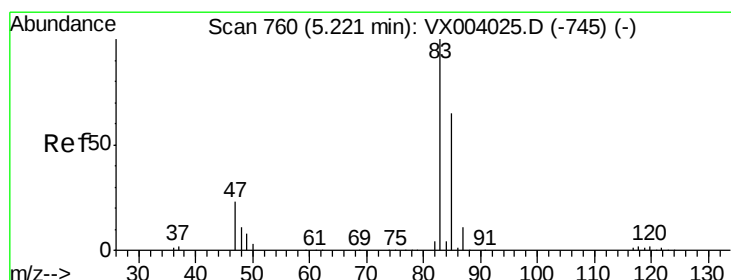
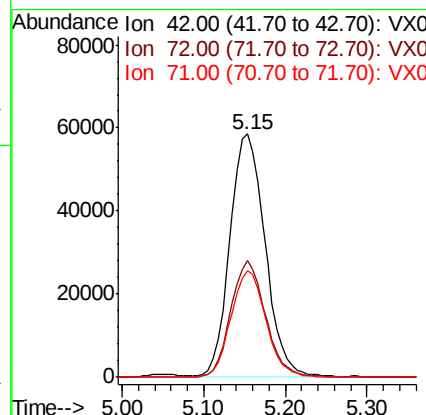
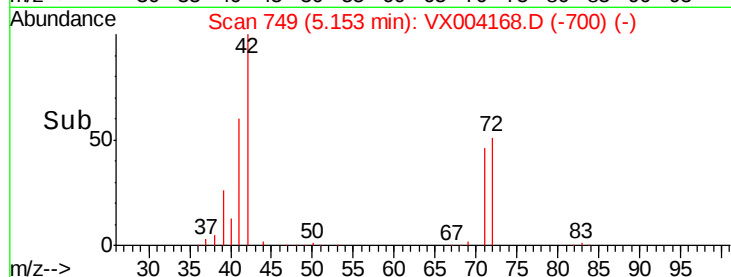
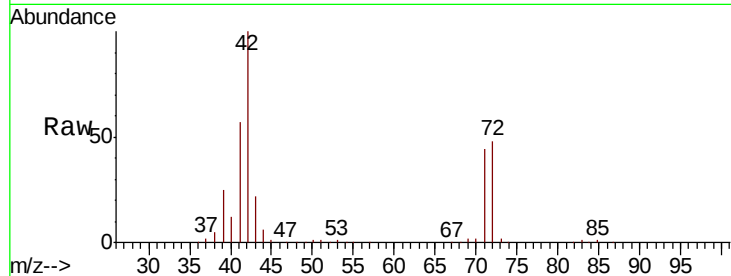
#29
Tetrahydrofuran
Concen: 91.99 ug/l
RT: 5.15 min Scan# 749
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.8	37.7	56.5
71	43.6	35.0	52.6

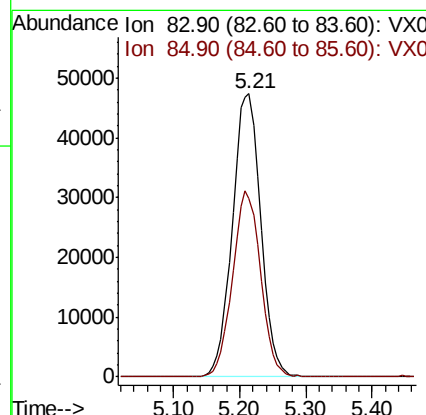
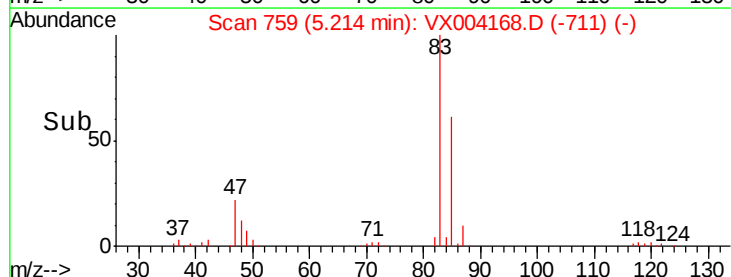
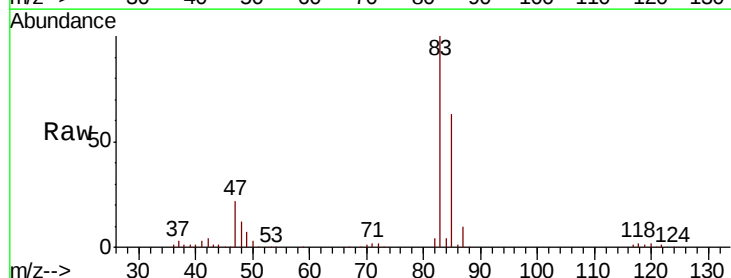
Manual Integrations
APPROVED

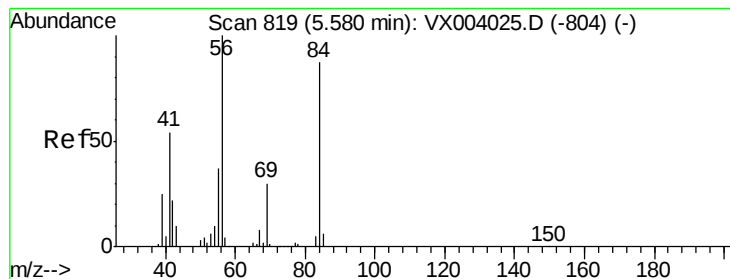
MMDadoda
8/22/2018 11:16:49 AM



#30
Chloroform
Concen: 20.93 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.7	76.1





#31

Cyclohexane

Concen: 19.48 ug/l

RT: 5.57 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 56 Resp: 118010

Ion Ratio Lower Upper

56 100

69 30.7 24.9 37.3

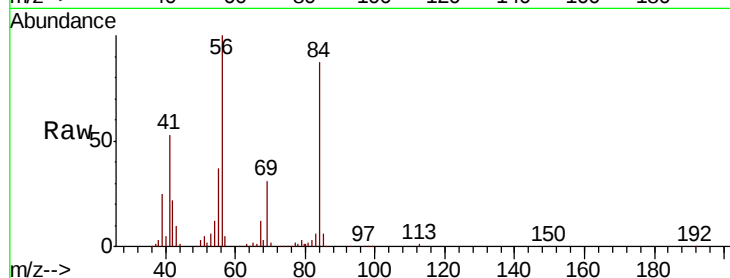
84 85.7 71.7 107.5

Manual Integrations

APPROVED

MMDadoda

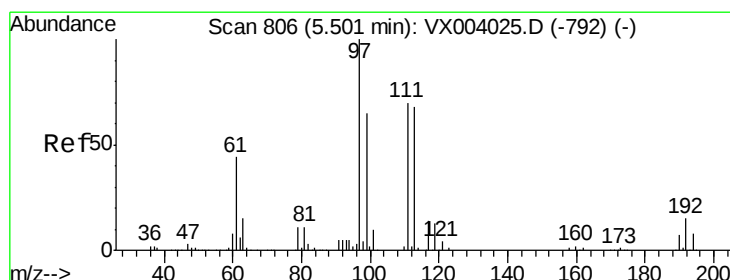
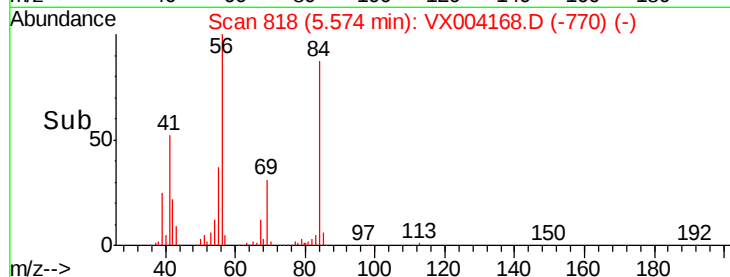
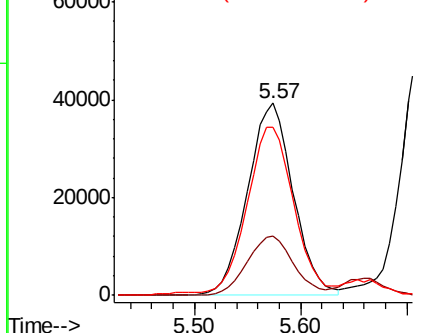
8/22/2018 11:16:49 AM



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 20.91 ug/l

RT: 5.49 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

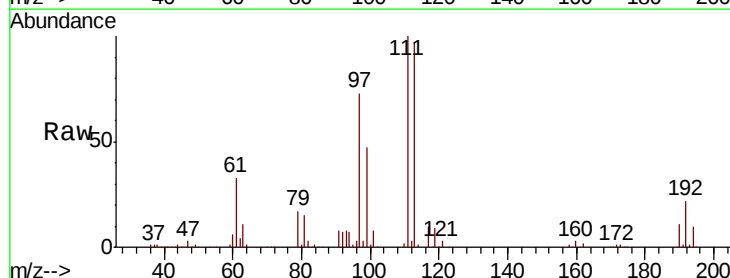
Tgt Ion: 97 Resp: 117841

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.8

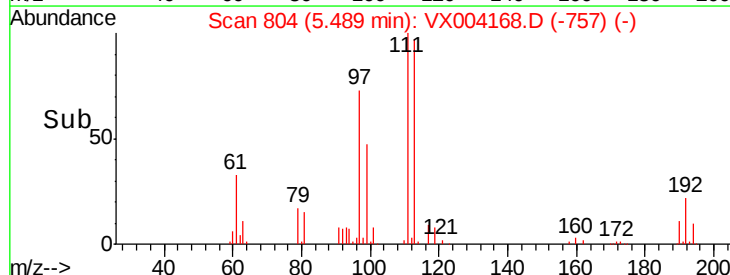
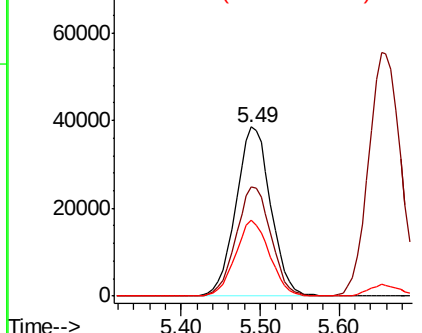
61 44.4 34.4 51.6

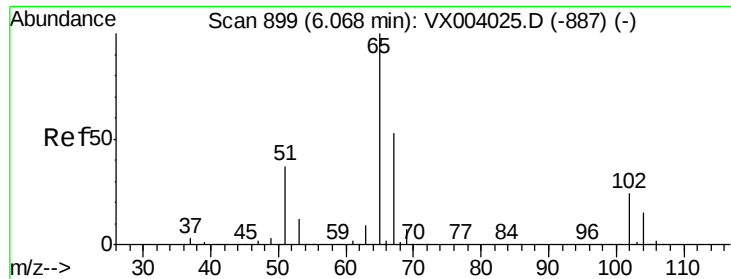


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





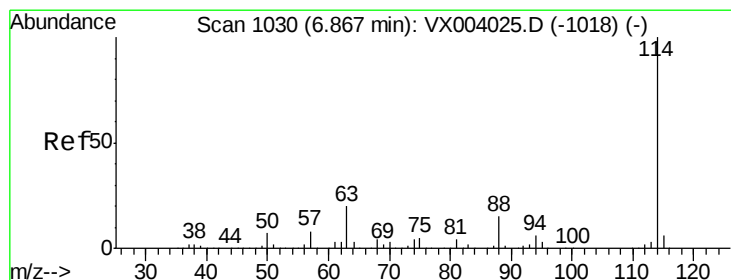
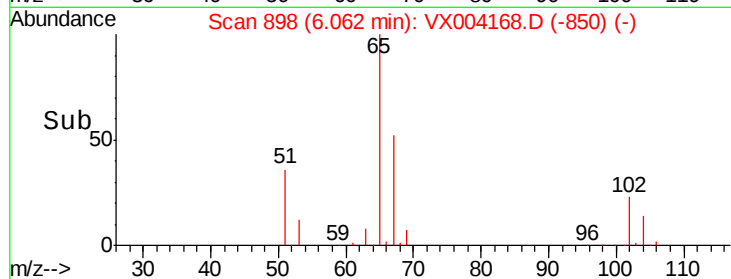
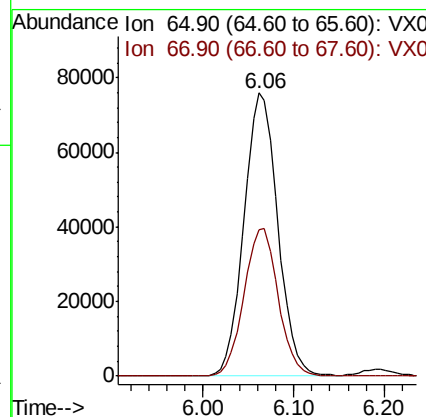
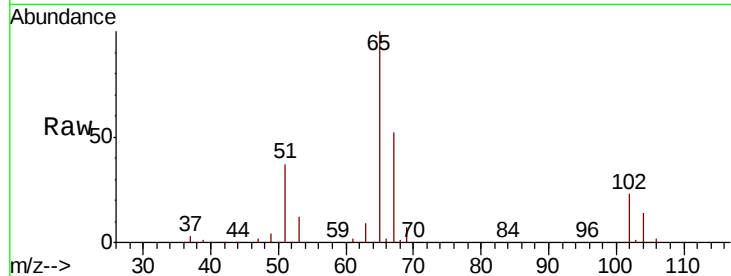
#33
 1,2-Dichloroethane-d4
 Concen: 44.72 ug/l
 RT: 6.06 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	195934		
67	52.8	0.0	105.8	

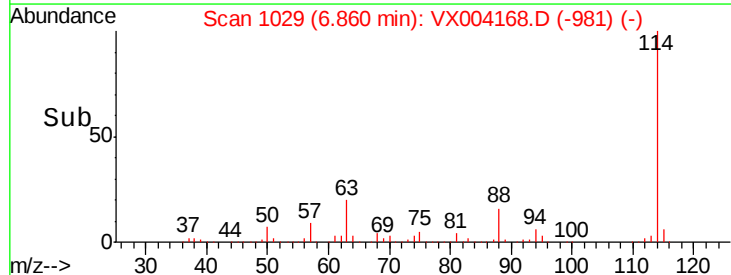
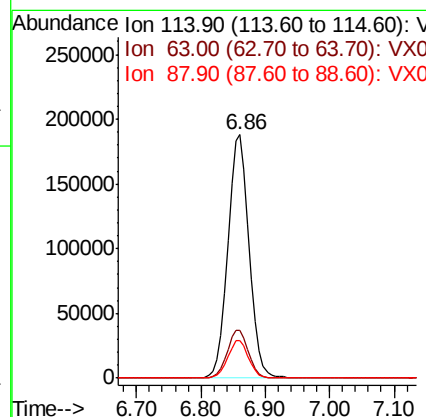
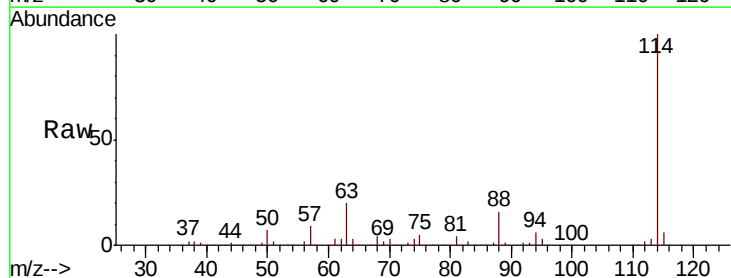
Manual Integrations
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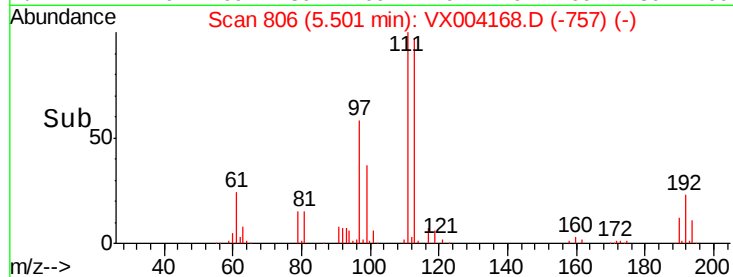
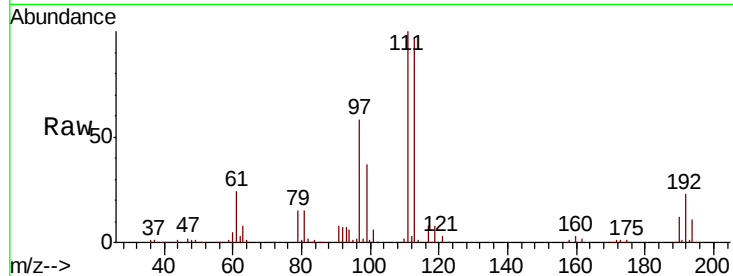
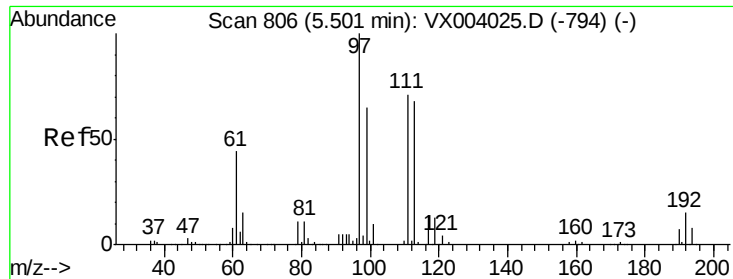
MMDadoda
 8/22/2018 11:16:49 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	437514		
63	19.7	0.0	39.0	
88	15.7	0.0	32.0	





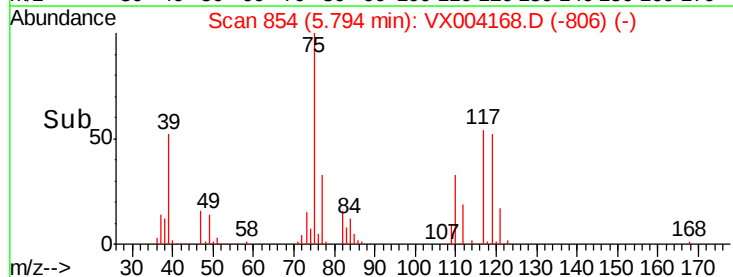
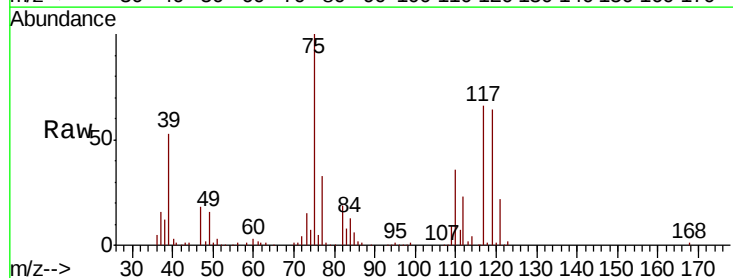
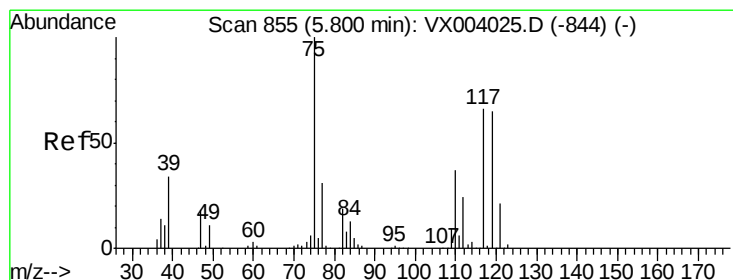
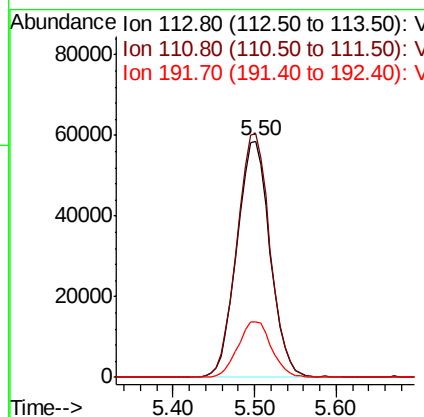
#35
Dibromofluoromethane
Concen: 50.48 ug/l
RT: 5.50 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tot Ion	Ratio	Resp	Lower	Upper
113	100	165306		
111	103.0	82.0	123.0	
192	23.8	19.0	28.4	

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

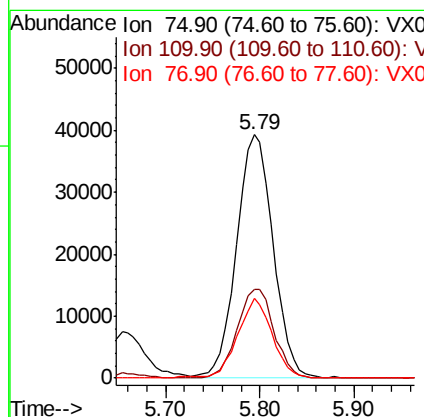
Manual Integrations
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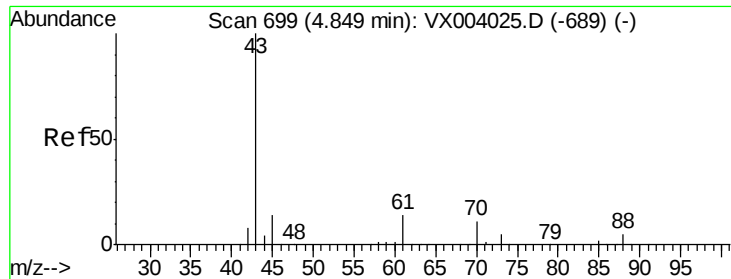
MMDadoda
8/22/2018 11:16:49 AM



#36
1,1-Dichloropropene
Concen: 21.34 ug/l
RT: 5.79 min Scan# 854
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	106232		
110	37.0	18.2	54.6	
77	31.0	25.0	37.4	





#37

Ethyl Acetate

Concen: 19.44 ug/l

RT: 4.85 min Scan# 699

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

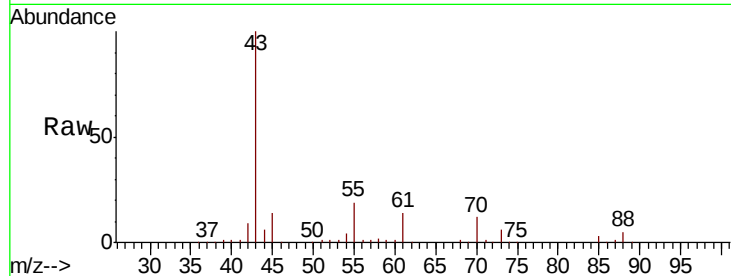
ClientSampleId :

VX0821WBS01

Tot Ion:	43	Resp:	105378
Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.5	17.3
70	11.9	9.0	13.4

Manual Integrations
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8/22/2018 11:16:49 AM

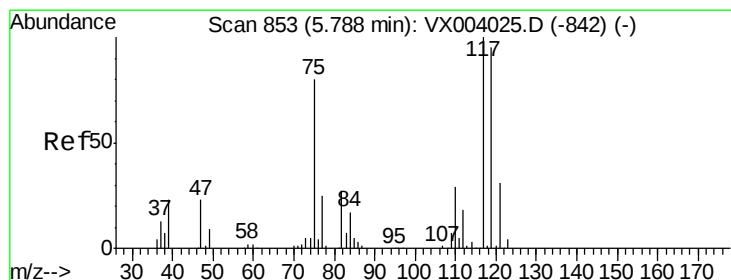
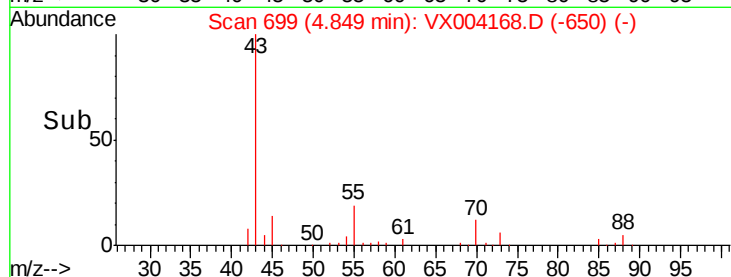
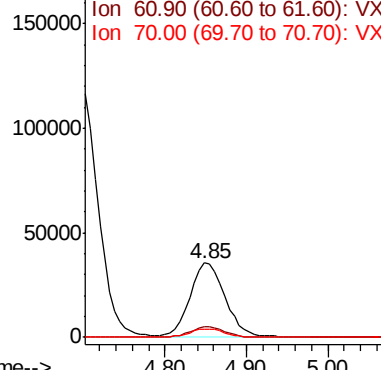


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 21.16 ug/l

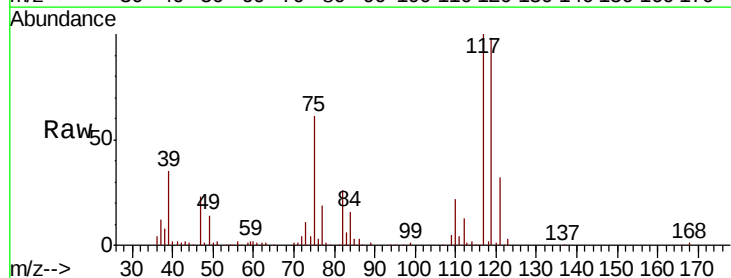
RT: 5.78 min Scan# 851

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Tgt Ion:	117	Resp:	102351
Ion	Ratio	Lower	Upper
117	100		
119	97.4	79.5	119.3
121	31.6	25.0	37.4

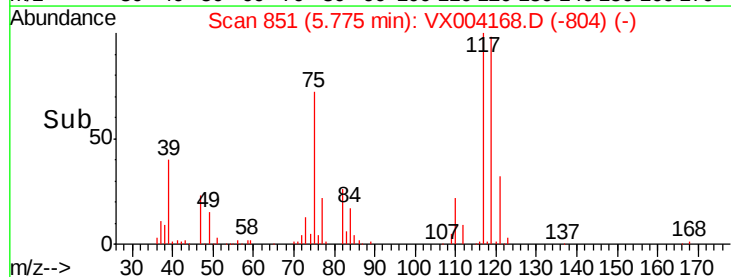
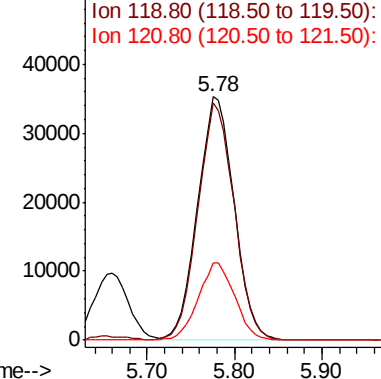


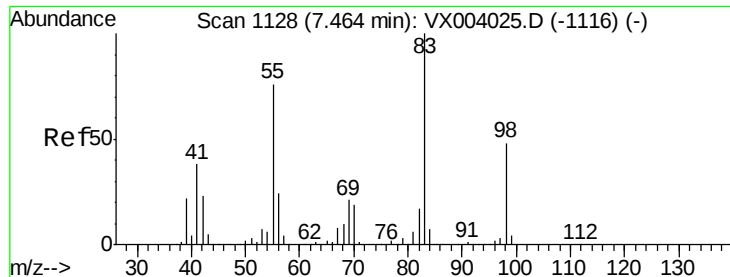
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





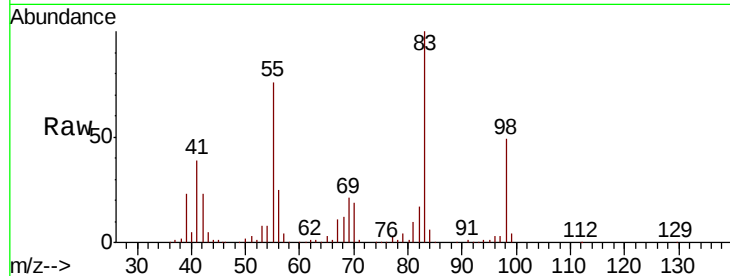
#39
Methylvlcvclohexane
Concen: 21.34 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

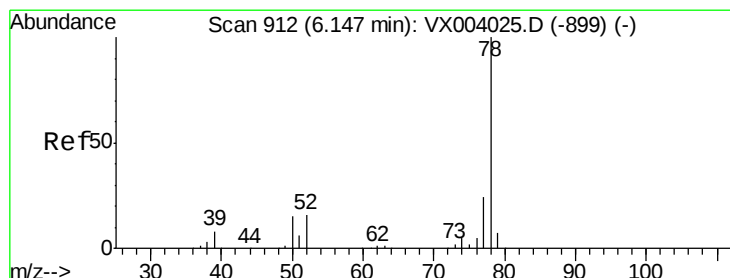
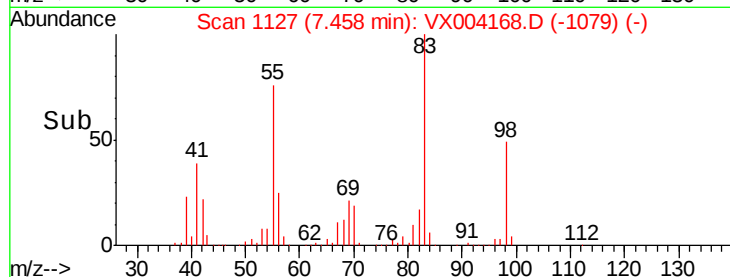
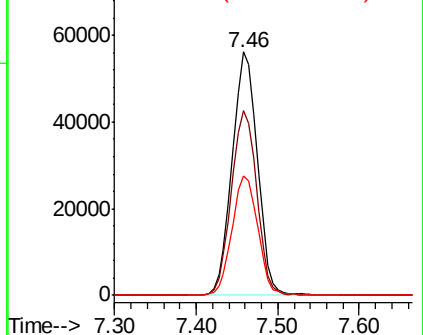
Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	75.8	61.0	91.6	
98	49.1	38.6	57.8	

Manual Integrations
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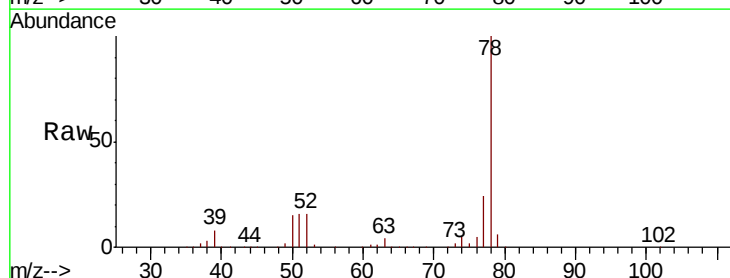


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

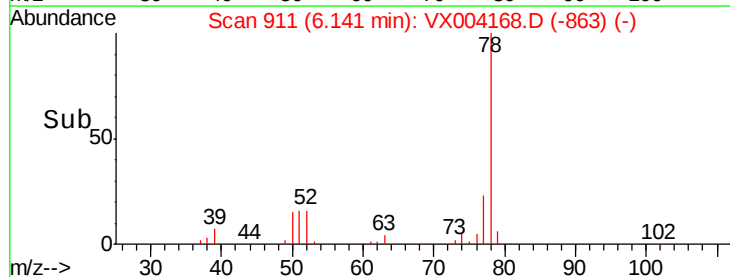
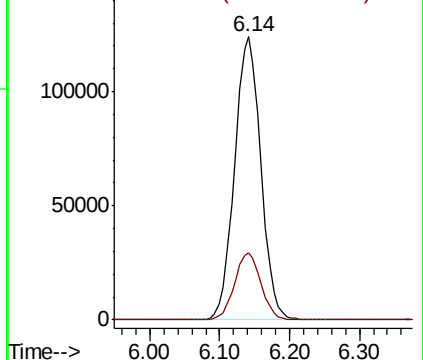


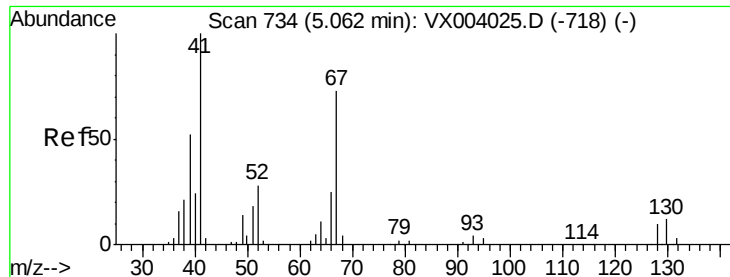
#40
Benzene
Concen: 21.57 ug/l
RT: 6.14 min Scan# 911
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.7	19.0	28.4	



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





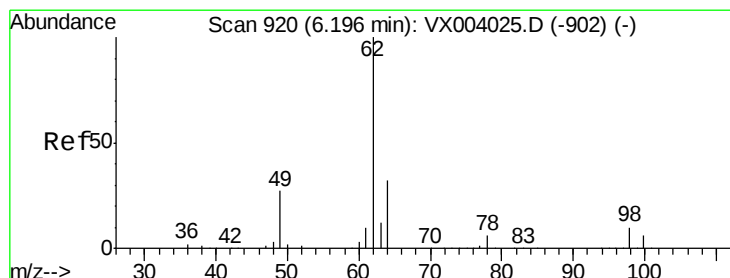
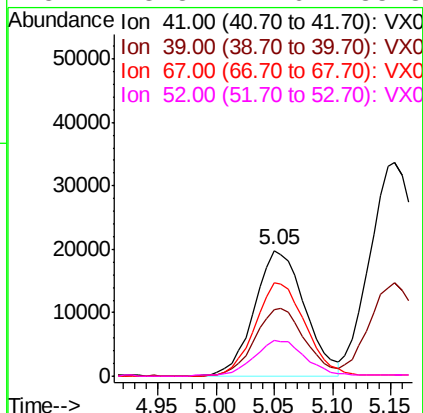
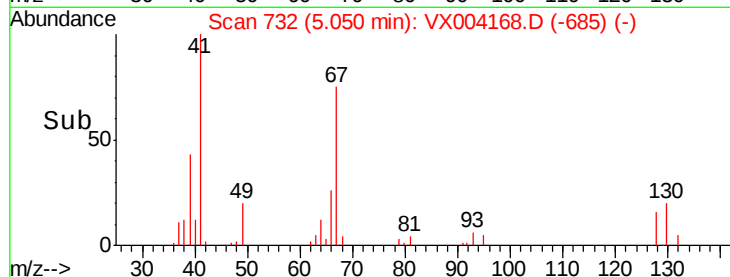
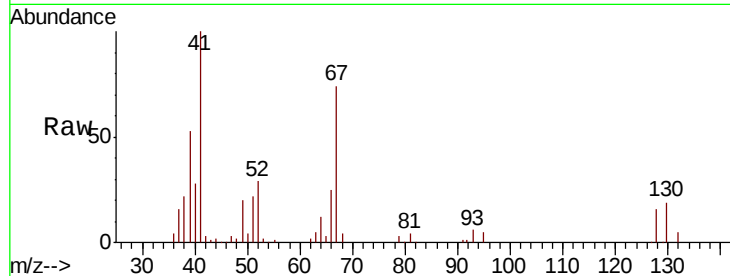
#41
Methacrylonitrile
Concen: 19.74 ug/l
RT: 5.05 min Scan# 732
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.0	42.7	64.1	
67	74.4	58.9	88.3	
52	28.8	22.6	33.8	

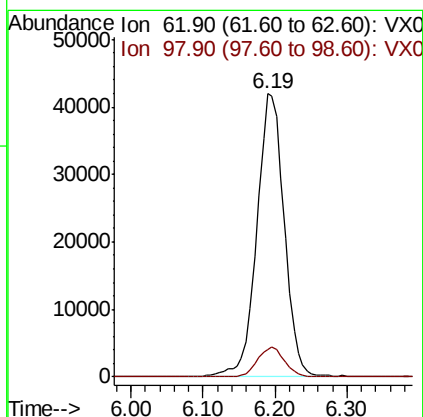
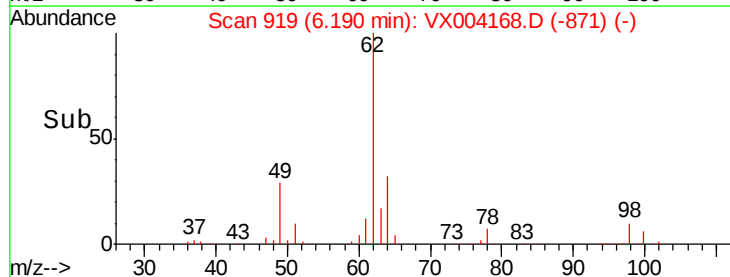
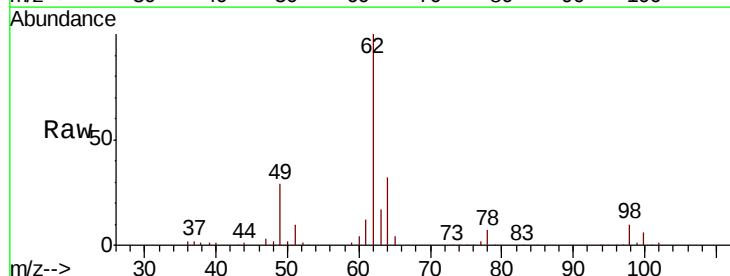
Manual Integrations
APPROVED

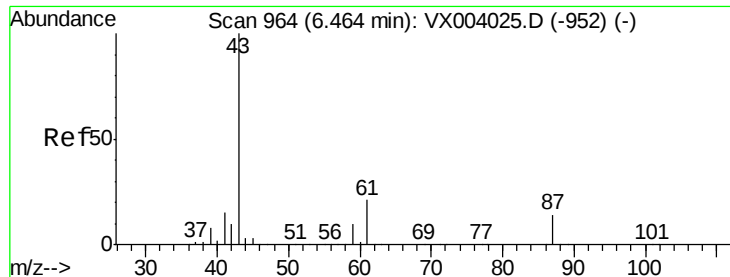
MMDadoda
8/22/2018 11:16:49 AM



#42
1,2-Dichloroethane
Concen: 21.08 ug/l
RT: 6.19 min Scan# 919
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.3	0.0	20.4	





#43

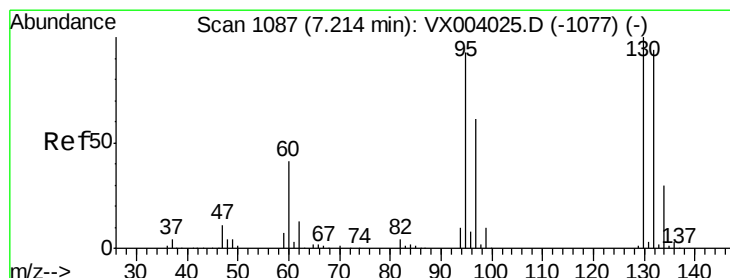
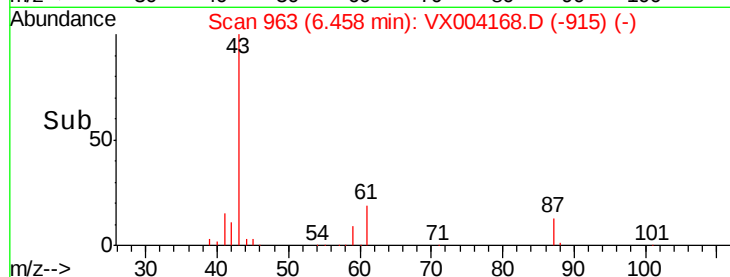
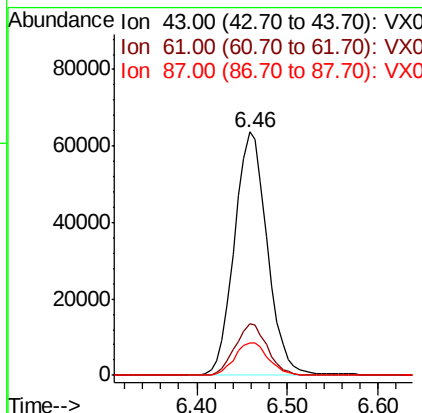
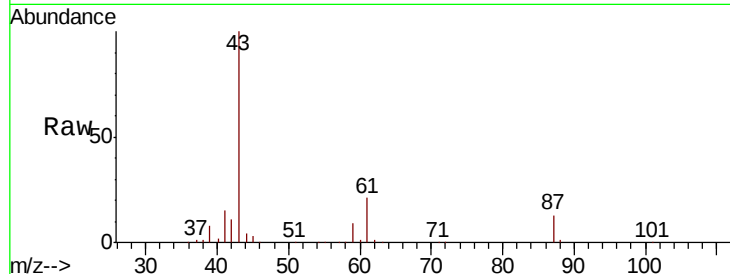
Isopropyl Acetate
 Concen: 19.96 ug/l
 RT: 6.46 min Scan# 963
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.0	16.9	25.3
87	13.7	11.3	16.9

Manual Integrations
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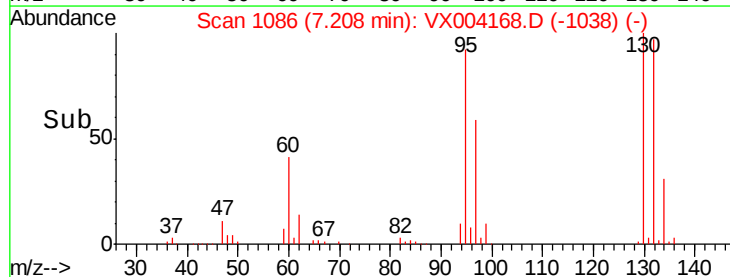
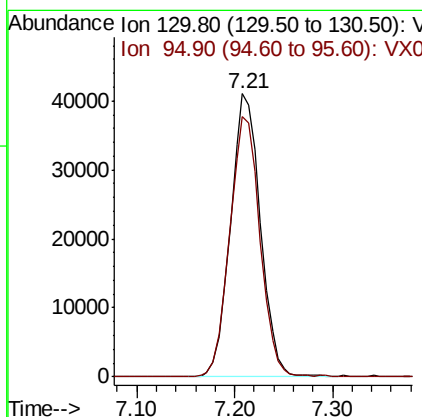
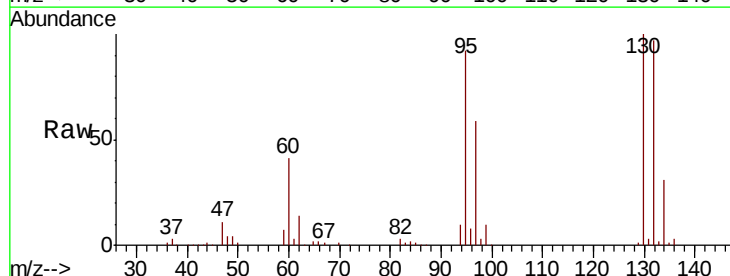
MMDadoda
 8/22/2018 11:16:49 AM

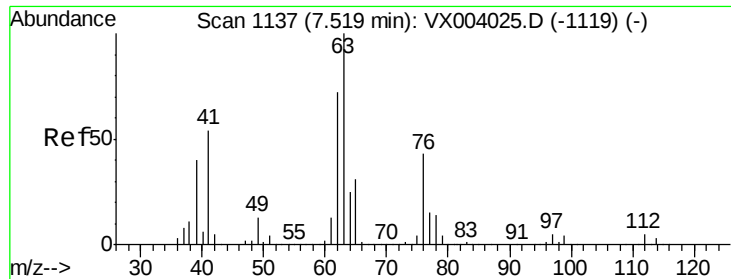


#44

Trichloroethene
 Concen: 21.45 ug/l
 RT: 7.21 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.0	0.0	199.4





#45

1,2-Dichloropropane

Concen: 21.12 ug/l

RT: 7.51 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 63 Resp: 80841

Ion Ratio Lower Upper

63 100

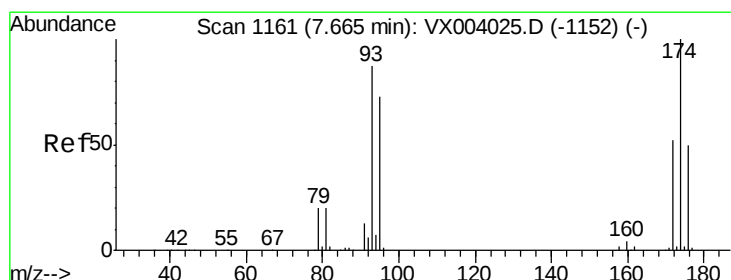
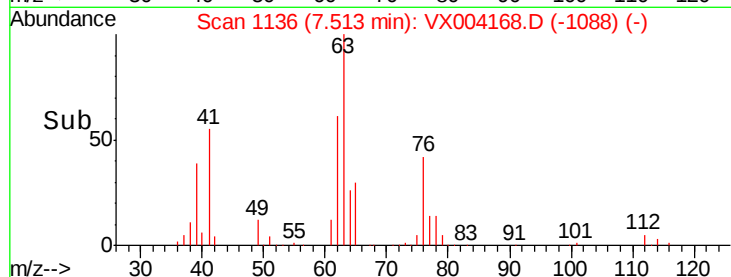
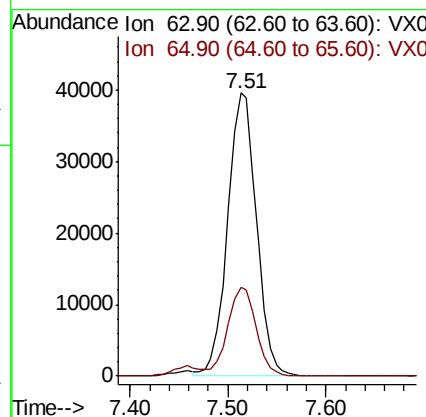
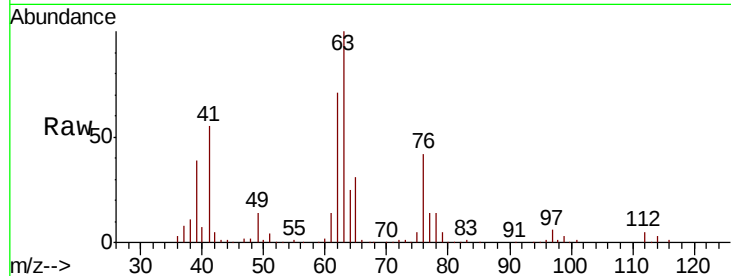
65 31.3 24.6 36.8

Manual Integrations

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MMDadoda

8/22/2018 11:16:49 AM



#46

Dibromomethane

Concen: 21.45 ug/l

RT: 7.66 min Scan# 1160

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

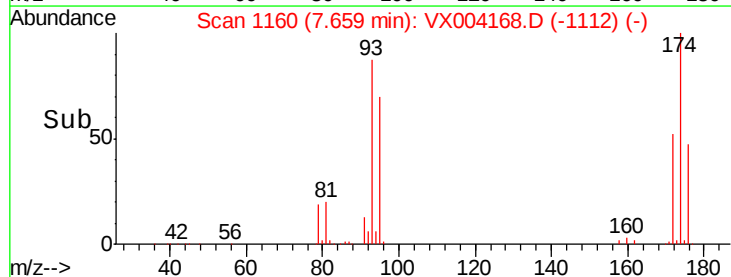
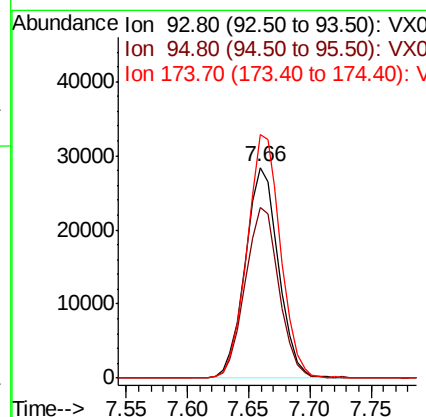
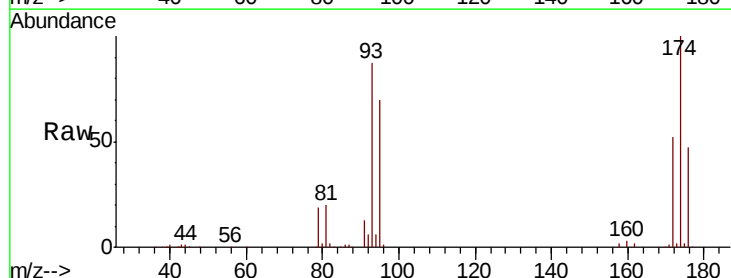
Tgt Ion: 93 Resp: 53638

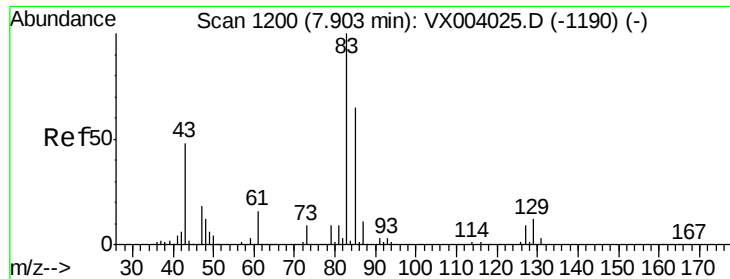
Ion Ratio Lower Upper

93 100

95 82.3 66.4 99.6

174 116.3 94.3 141.5





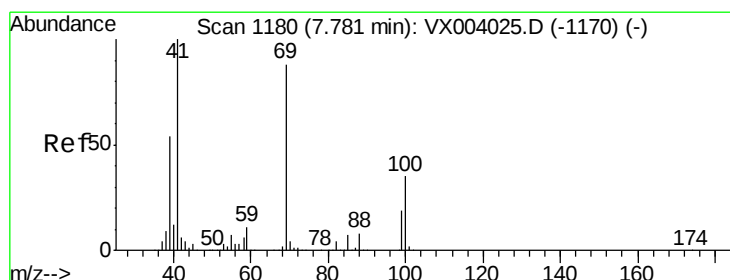
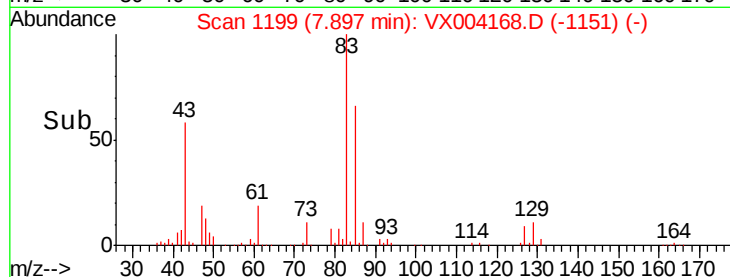
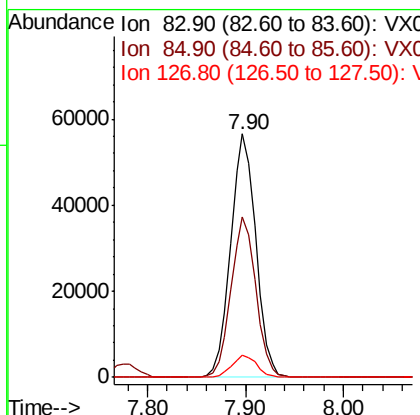
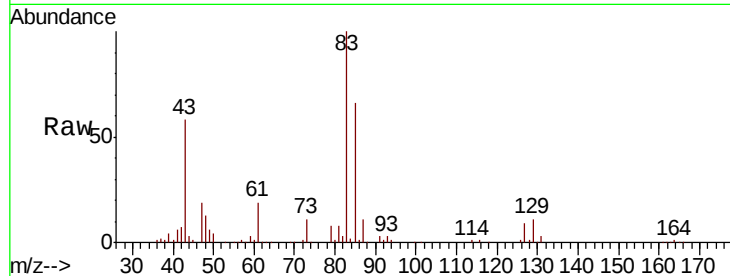
#47
Bromodichloromethane
Concen: 21.30 ug/l
RT: 7.90 min Scan# 1199
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	65.9	51.2	76.8	
127	8.9	7.2	10.8	

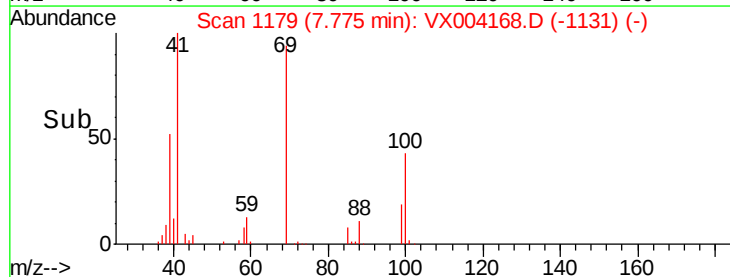
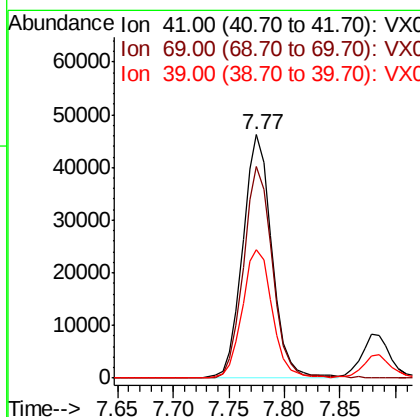
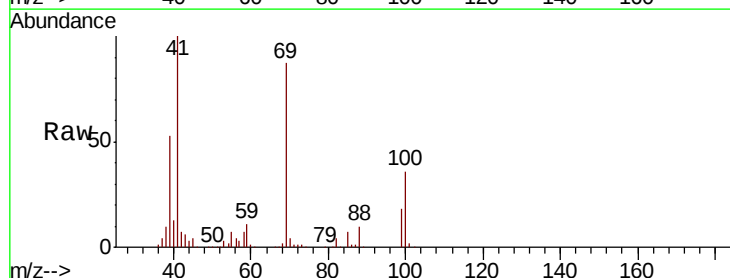
Manual Integrations
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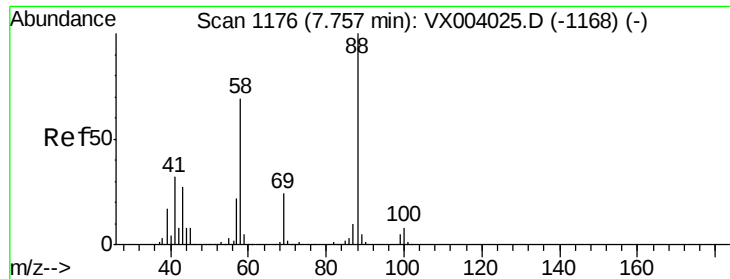
MMDadoda
8/22/2018 11:16:49 AM



#48
Methyl methacrylate
Concen: 20.79 ug/l
RT: 7.77 min Scan# 1179
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	87.5	68.8	103.2	
39	54.0	42.3	63.5	





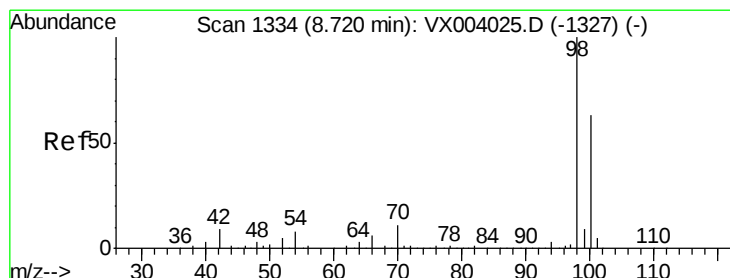
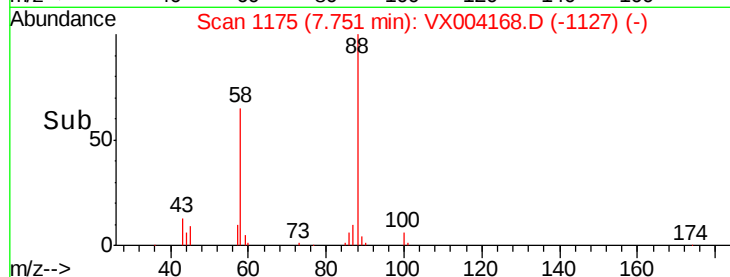
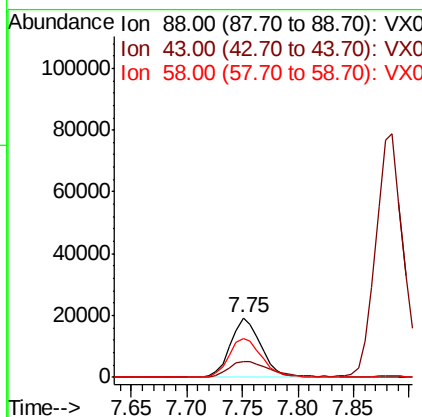
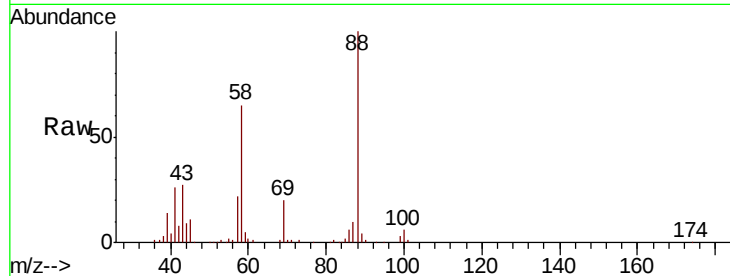
#49
1,4-Dioxane
Concen: 402.48 ug/l
RT: 7.75 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.2	23.8	35.8#
58	71.1	55.4	83.0

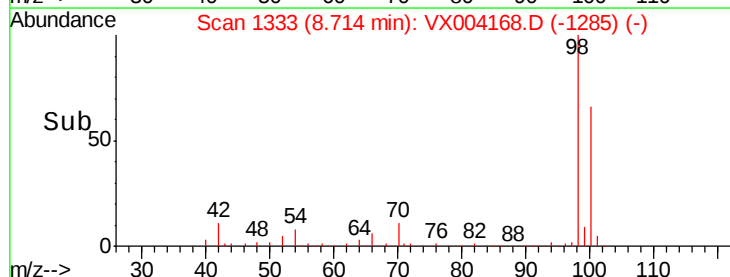
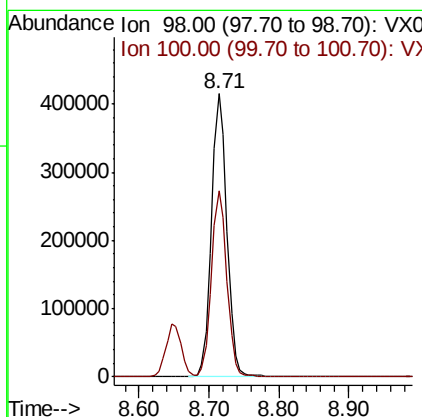
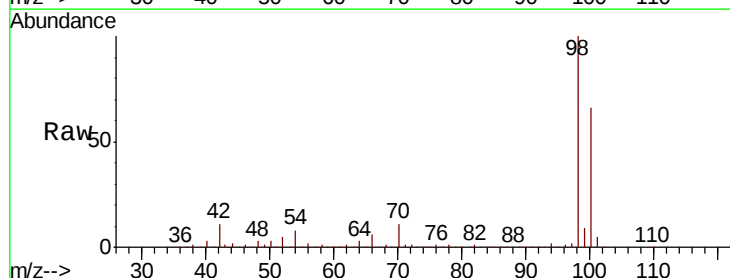
Manual Integrations
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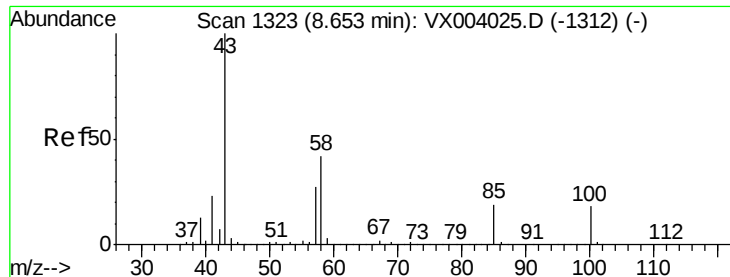
MMDadoda
8/22/2018 11:16:49 AM



#50
Toluene-d8
Concen: 47.94 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 106.54 ug/l

RT: 8.65 min Scan# 1322

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampled :

VX0821WBS01

Tot Ion: 43 Resp: 698087

Ion Ratio Lower Upper

43 100

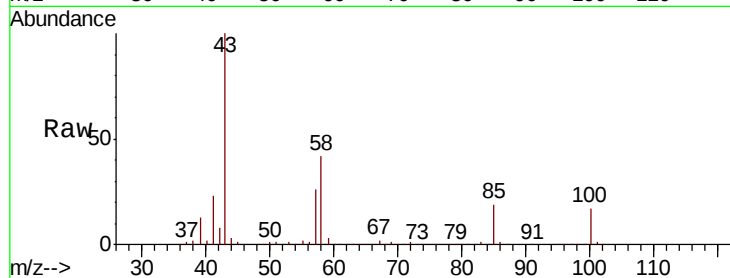
58 40.9 33.0 49.6

Manual Integrations

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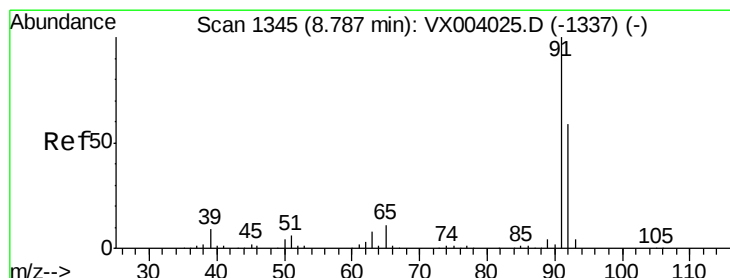
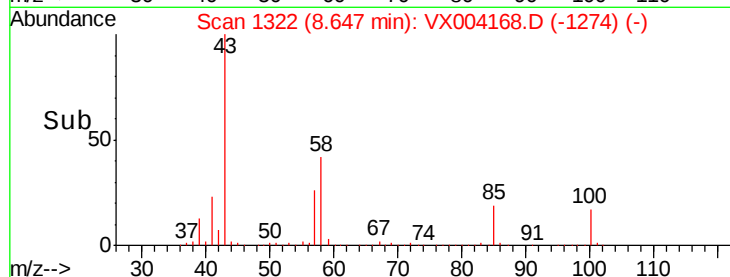
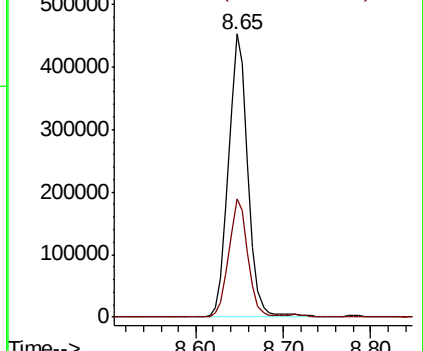
MMDadoda

8/22/2018 11:16:49 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 22.07 ug/l

RT: 8.78 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VX004168.D

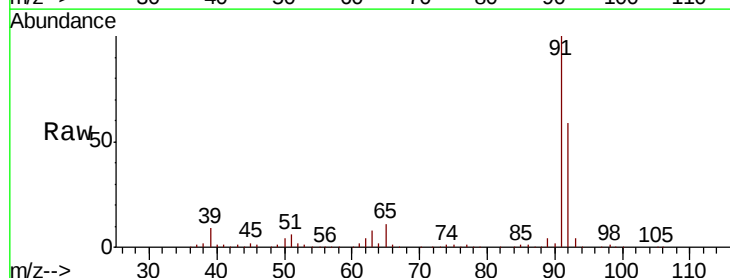
Acq: 21 Aug 2018 11:52

Tgt Ion: 92 Resp: 208645

Ion Ratio Lower Upper

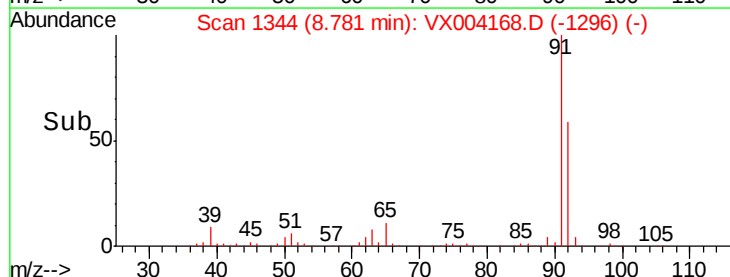
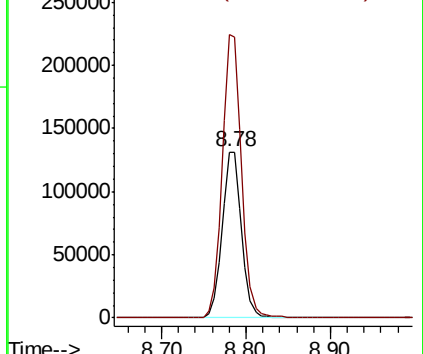
92 100

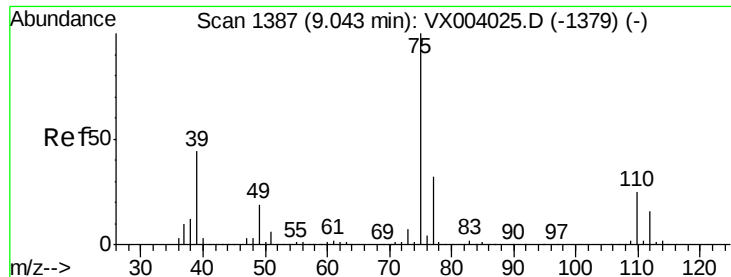
91 169.9 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





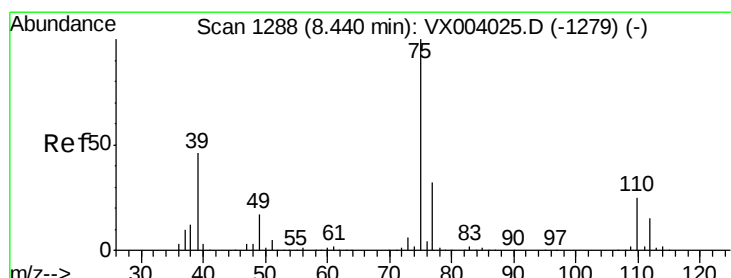
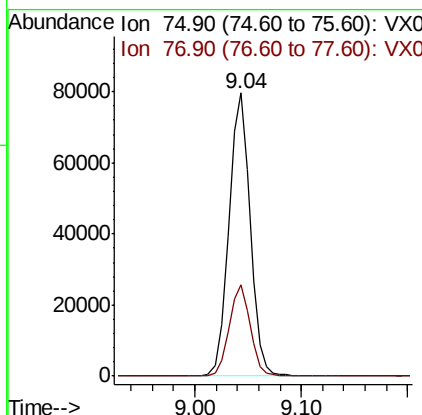
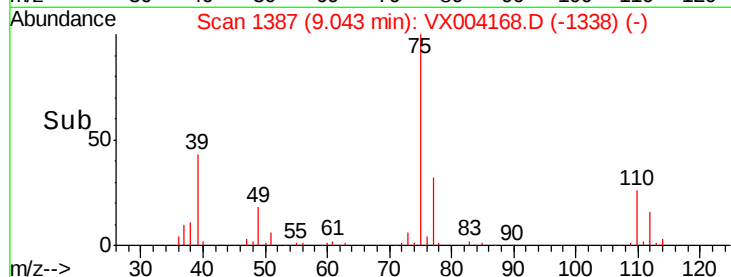
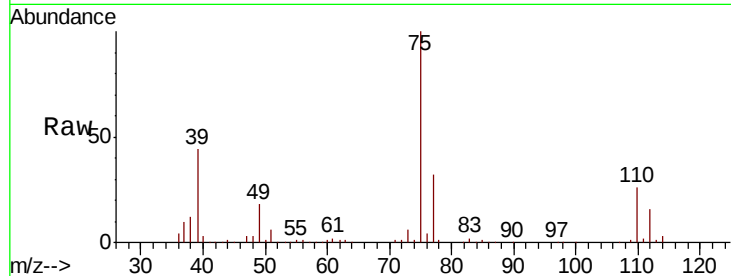
#53
 t-1,3-Dichloropropene
 Concen: 21.85 ug/l
 RT: 9.04 min Scan# 1387
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion: 75 Resp: 111823
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.1 37.7

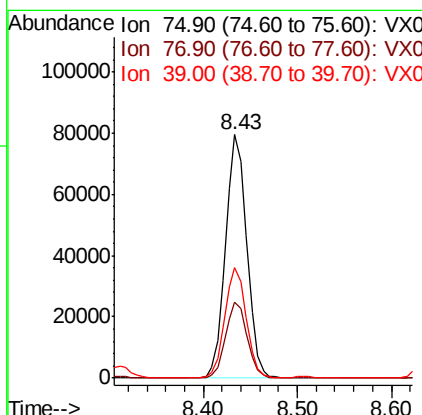
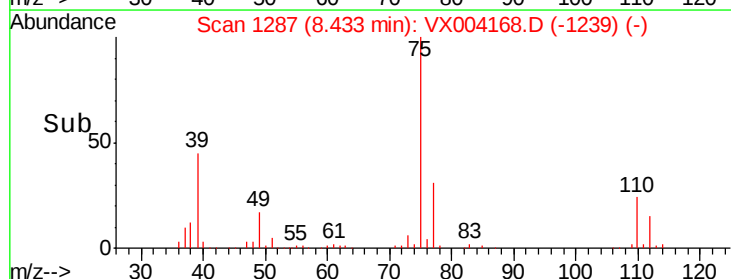
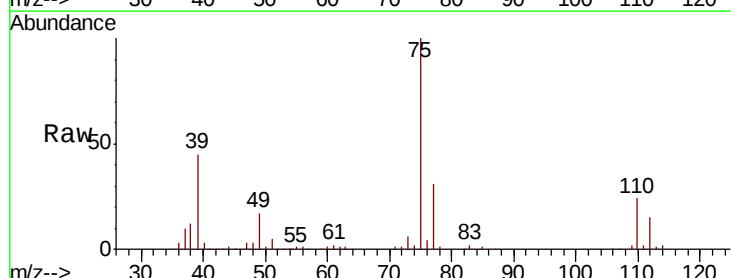
Manual Integrations
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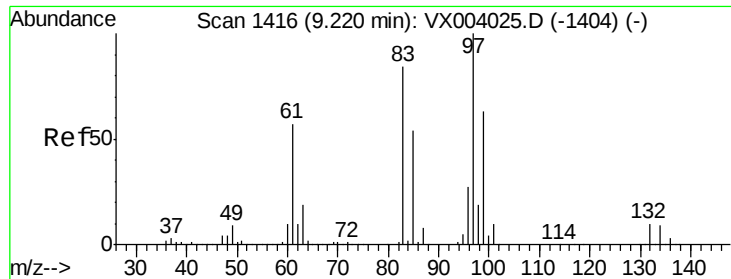
MMDadoda
 8/22/2018 11:16:49 AM



#54
 cis-1,3-Dichloropropene
 Concen: 21.94 ug/l
 RT: 8.43 min Scan# 1287
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion: 75 Resp: 124343
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.3 37.9
 39 45.4 36.2 54.2





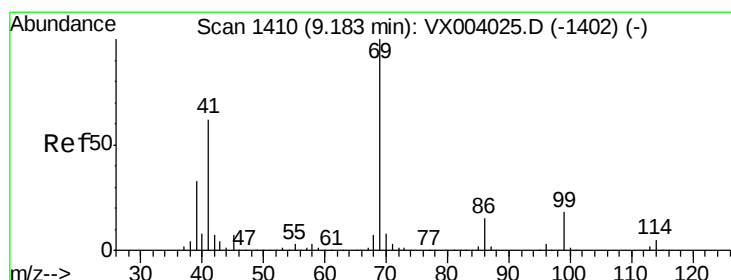
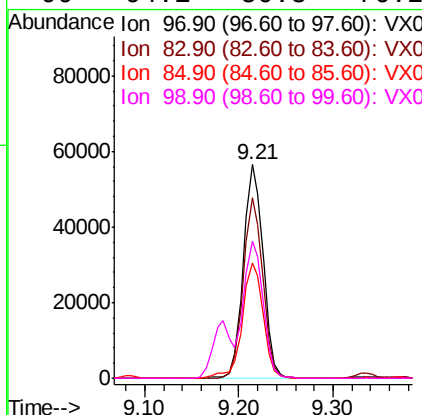
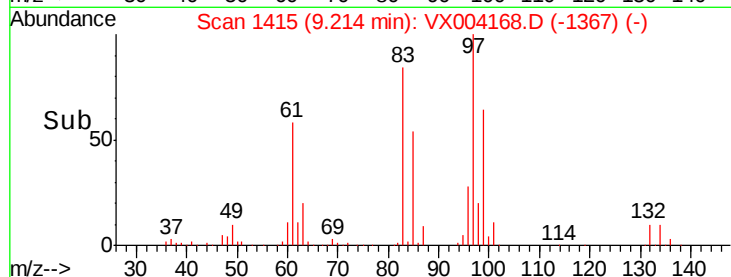
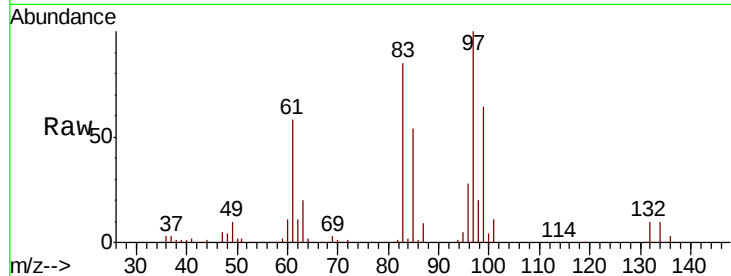
#55
 1,1,2-Trichloroethane
 Concen: 21.25 ug/l
 RT: 9.21 min Scan# 1415
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		82952		
83	84.5	67.8	101.6		
85	54.1	44.2	66.2		
99	64.1	50.8	76.2		

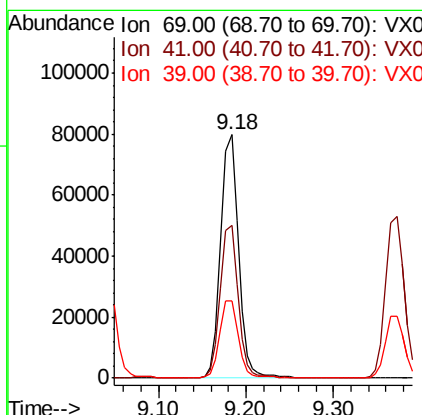
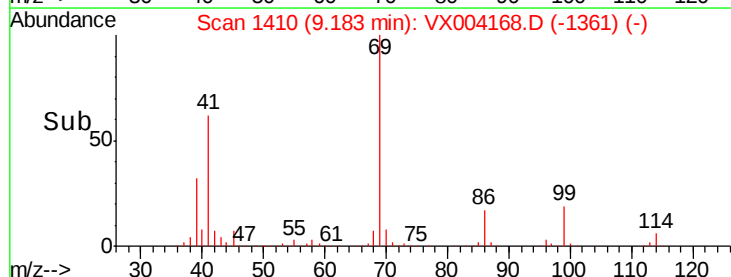
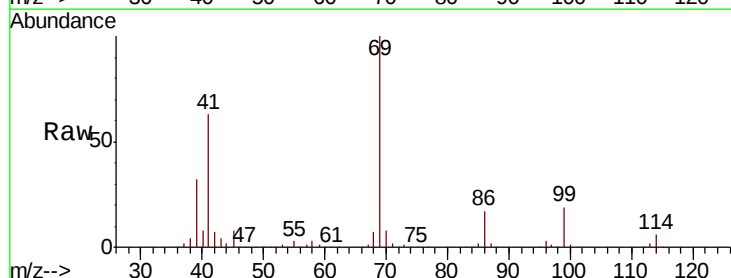
Manual Integrations
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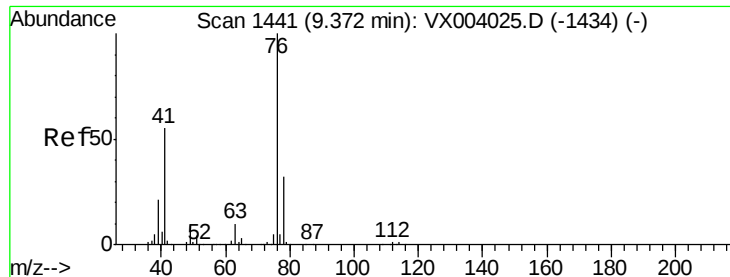
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 21.33 ug/l
 RT: 9.18 min Scan# 1410
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		113268		
41	63.0	50.6	76.0		
39	32.9	25.8	38.6		





#57

1,3-Dichloropropane

Concen: 21.51 ug/l

RT: 9.37 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 76 Resp: 139322

Ion Ratio Lower Upper

76 100

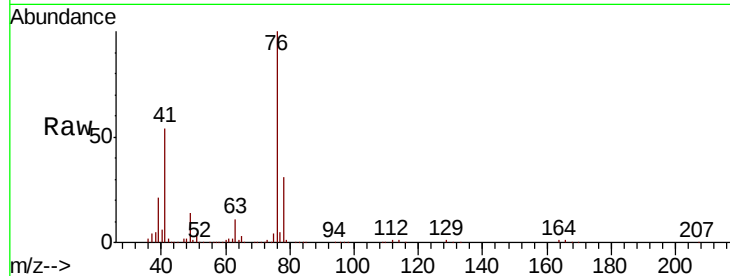
78 32.1 25.9 38.9

Manual Integrations

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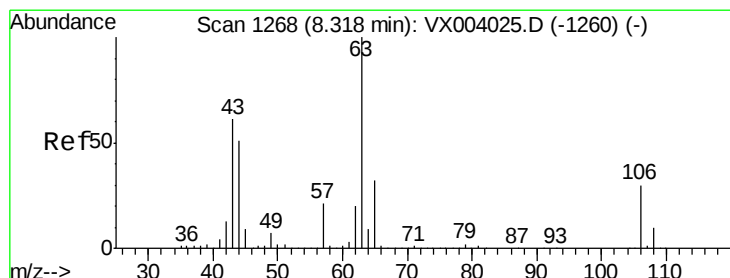
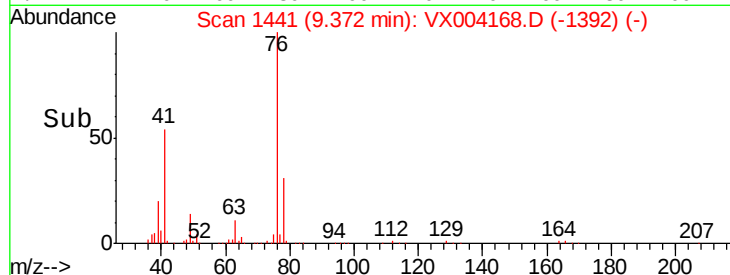
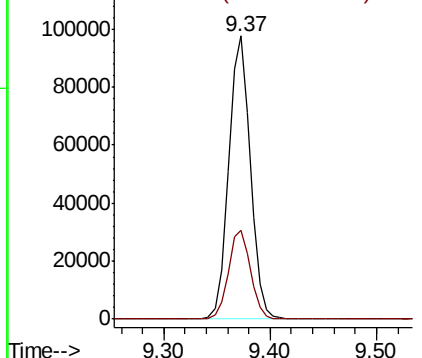
MMDadoda

8/22/2018 11:16:49 AM



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: 112.37 ug/l

RT: 8.31 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VX004168.D

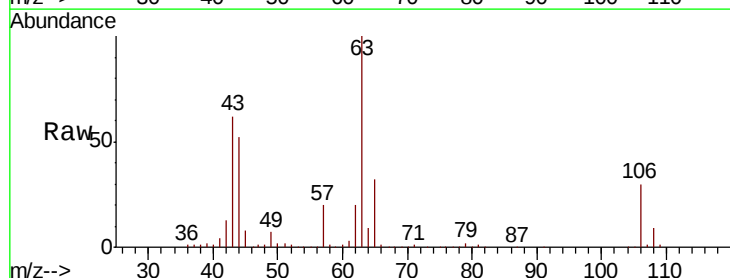
Acq: 21 Aug 2018 11:52

Tgt Ion: 63 Resp: 303783

Ion Ratio Lower Upper

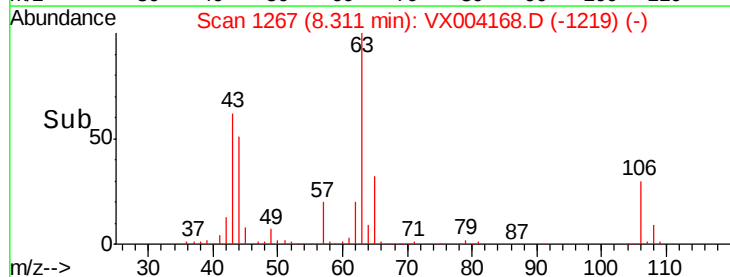
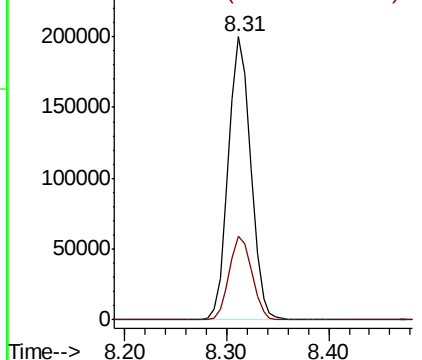
63 100

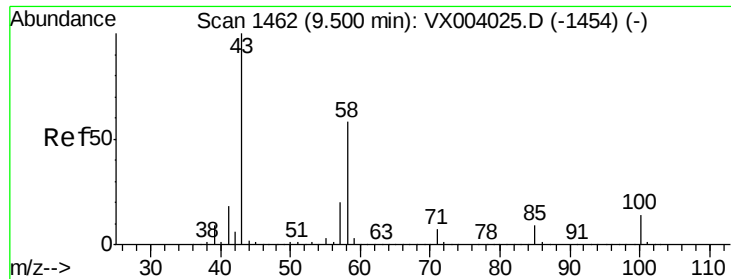
106 30.0 23.8 35.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





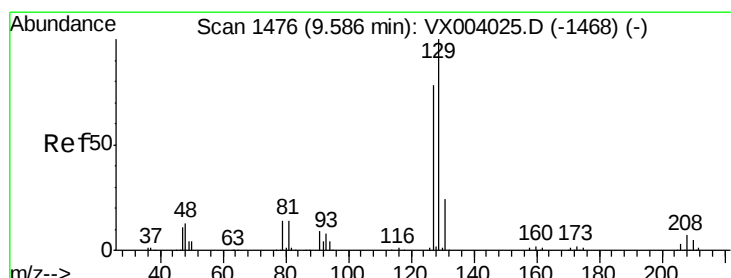
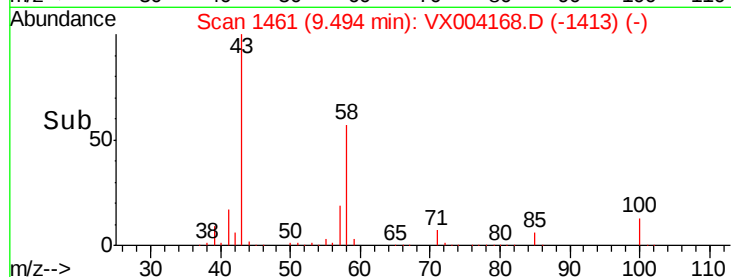
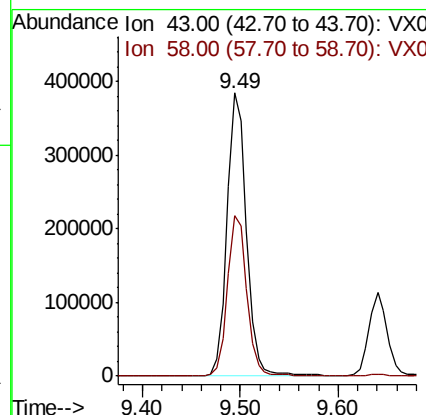
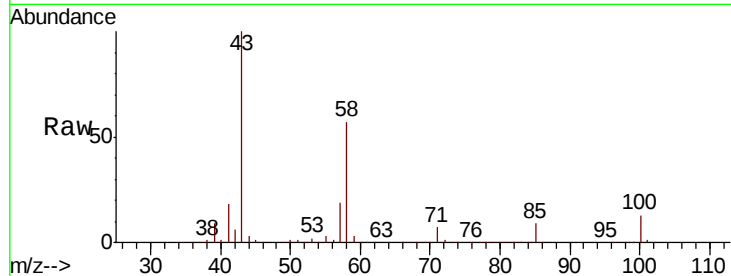
#59
2-Hexanone
Concen: 107.46 ug/l
RT: 9.49 min Scan# 1461
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.9	29.0	87.0

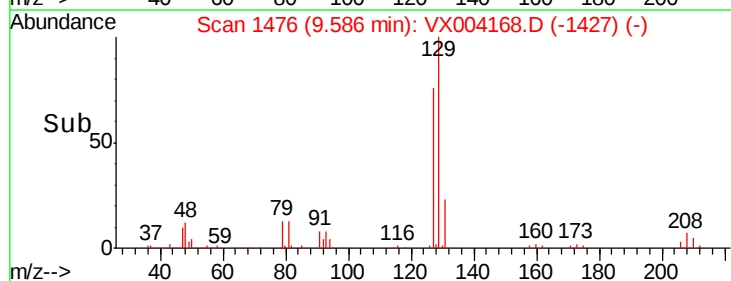
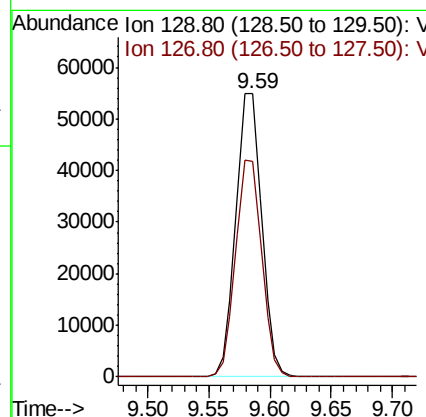
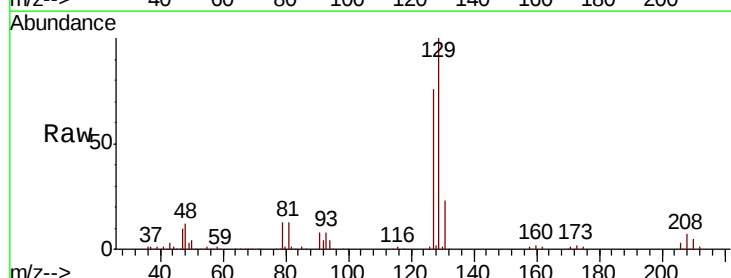
Manual Integrations
APPROVED

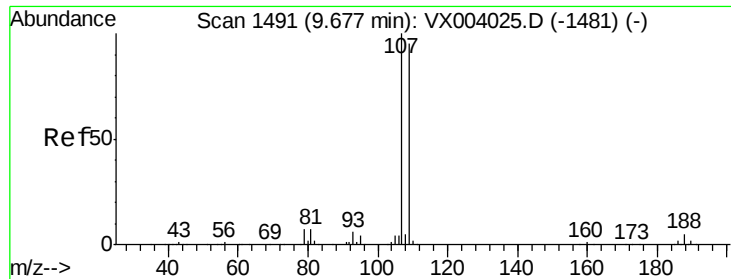
MMDadoda
8/22/2018 11:16:49 AM



#60
Dibromochloromethane
Concen: 21.38 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.8	116.3





#61

1,2-Dibromoethane

Concen: 21.39 ug/l

RT: 9.67 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 107 Resp: 85138

Ion Ratio Lower Upper

107 100

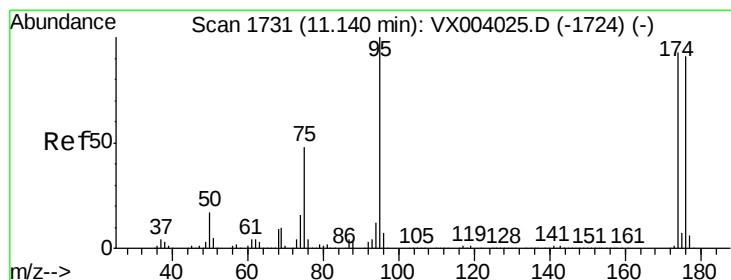
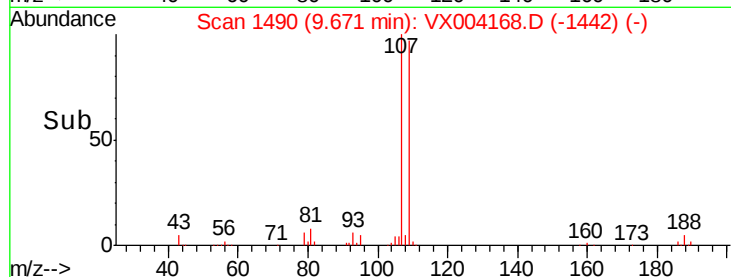
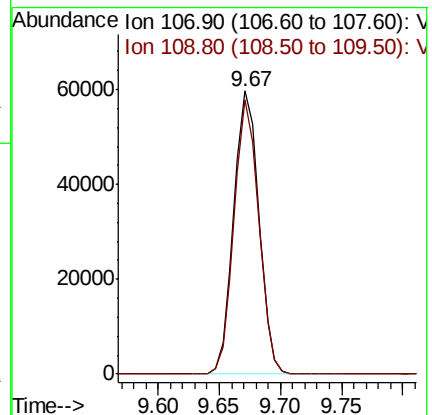
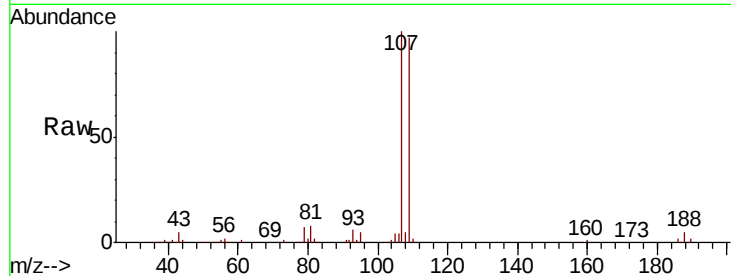
109 94.8 75.8 113.8

Manual Integrations

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8/22/2018 11:16:49 AM



#62

4-Bromofluorobenzene

Concen: 47.66 ug/l

RT: 11.13 min Scan# 1730

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

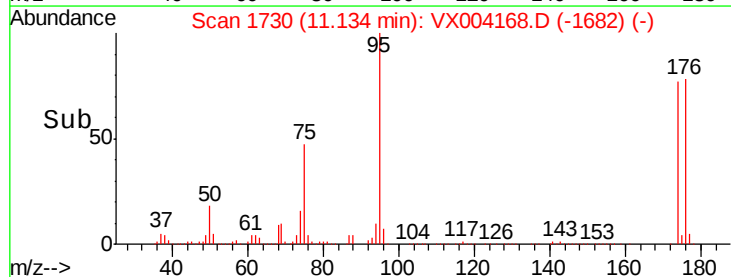
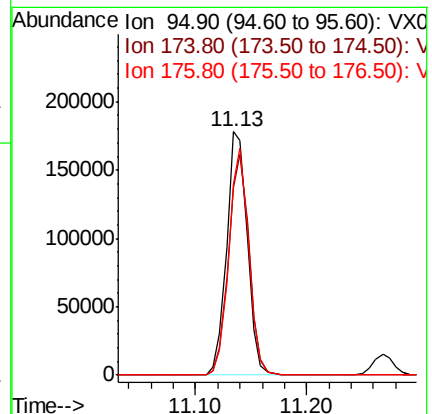
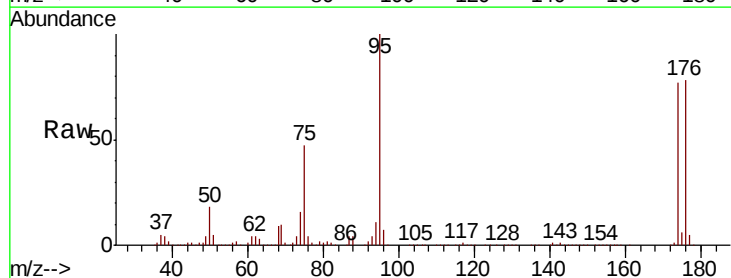
Tgt Ion: 95 Resp: 229479

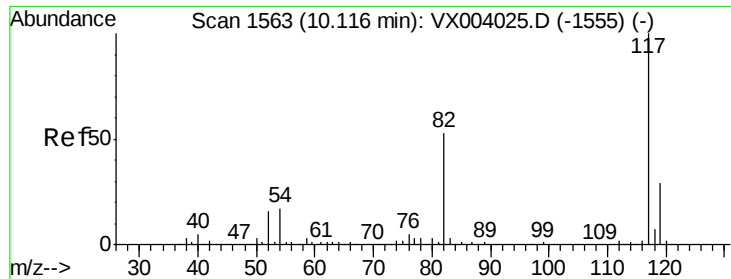
Ion Ratio Lower Upper

95 100

174 90.3 0.0 182.8

176 89.6 0.0 179.0





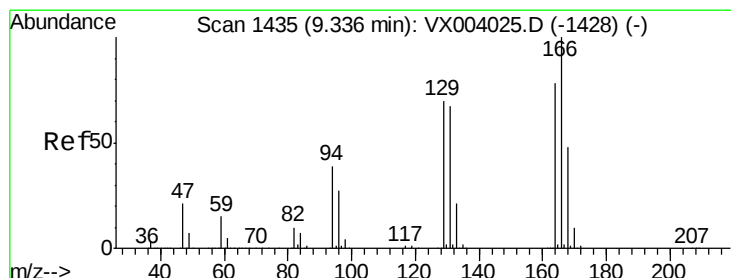
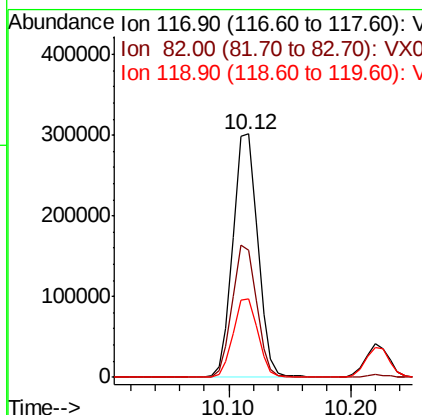
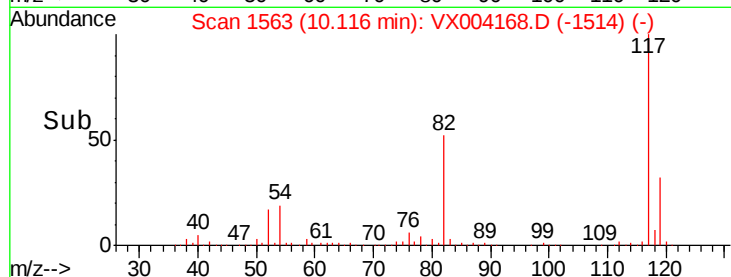
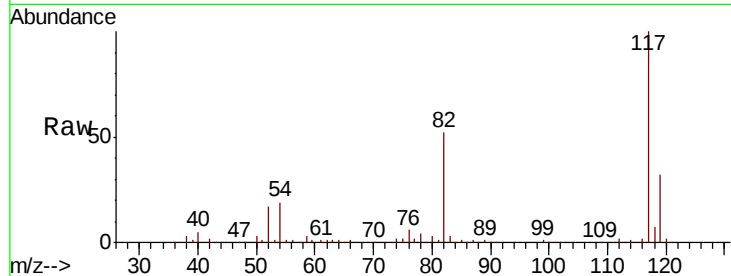
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	45.4	68.0
119	32.5	26.6	40.0

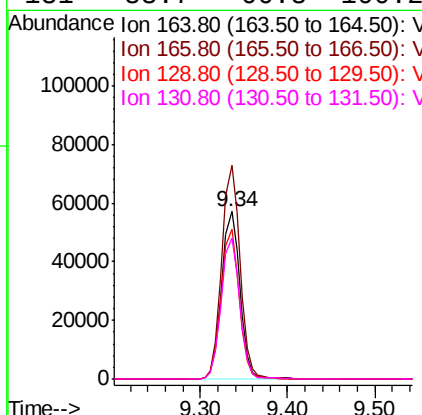
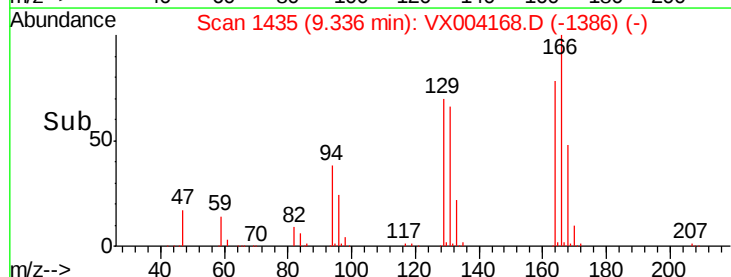
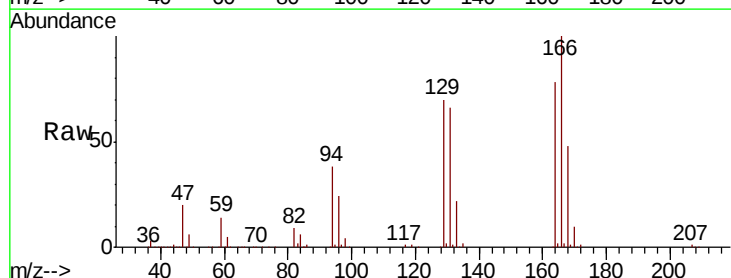
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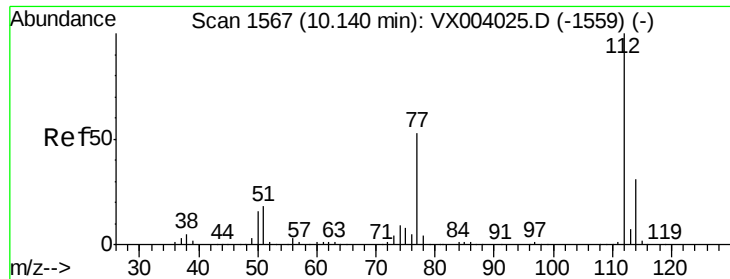
MMDadoda
8/22/2018 11:16:49 AM



#64
Tetrachloroethene
Concen: 20.68 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	98.0	147.0
129	89.6	64.3	96.5
131	83.7	66.8	100.2





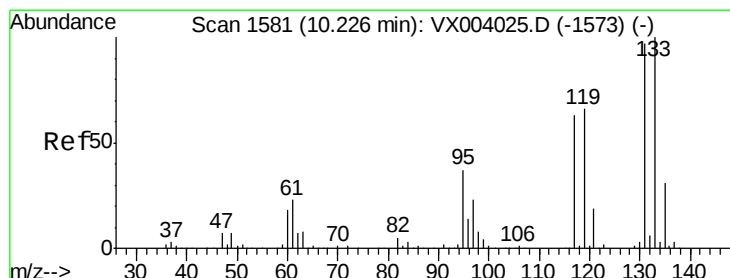
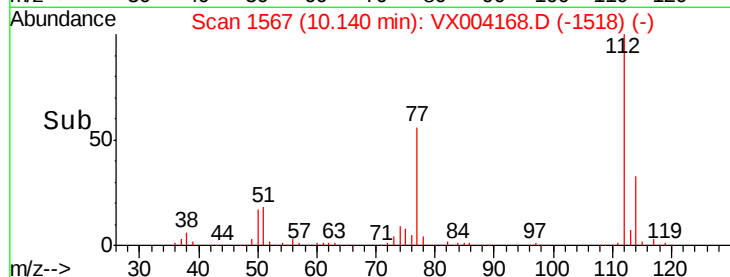
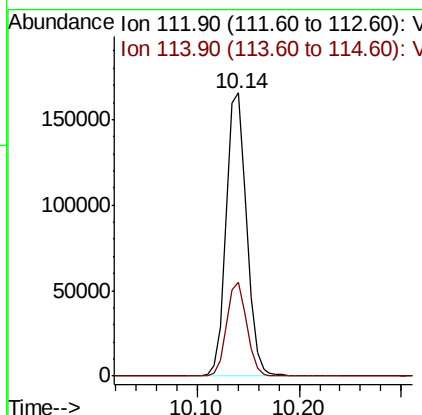
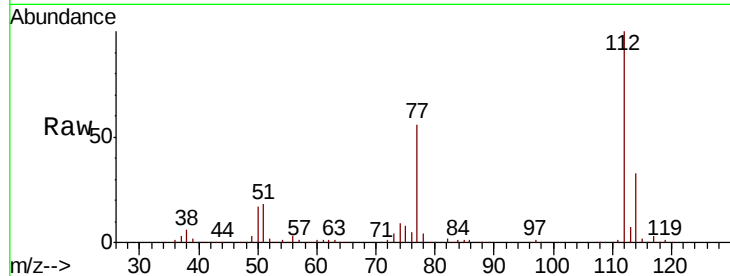
#65
Chlorobenzene
Concen: 20.99 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.1	23.6	35.4

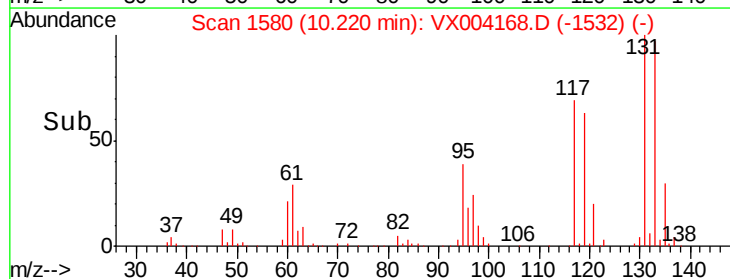
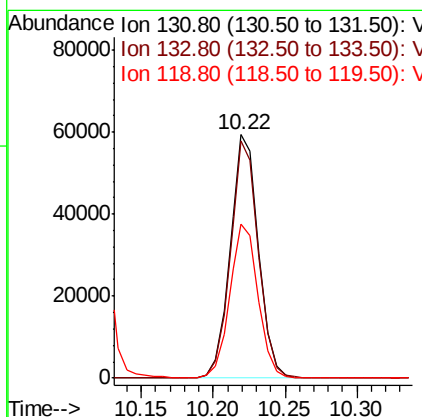
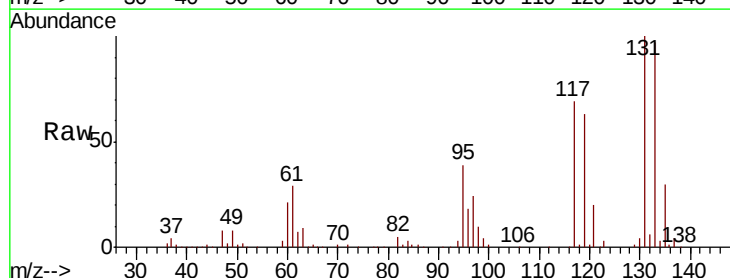
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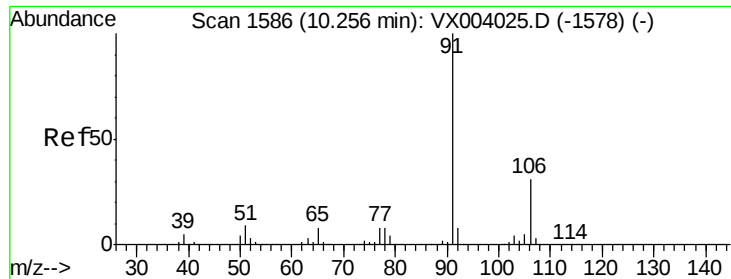
MMDadoda
8/22/2018 11:16:49 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.64 ug/l
RT: 10.22 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	141.8
119	63.8	31.6	94.8





#67

Ethyl Benzene

Concen: 22.19 ug/l

RT: 10.25 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampled :

VX0821WBS01

Tot Ion: 91 Resp: 384701

Ion Ratio Lower Upper

91 100

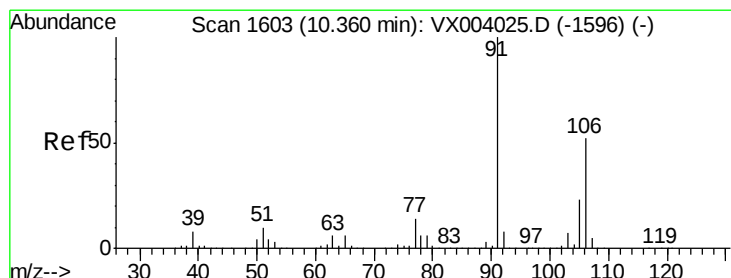
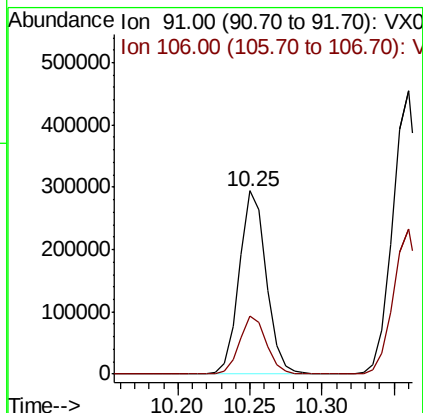
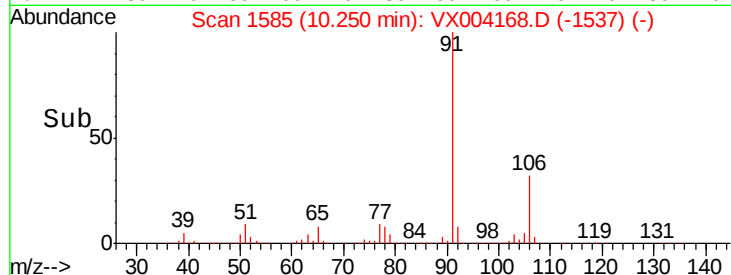
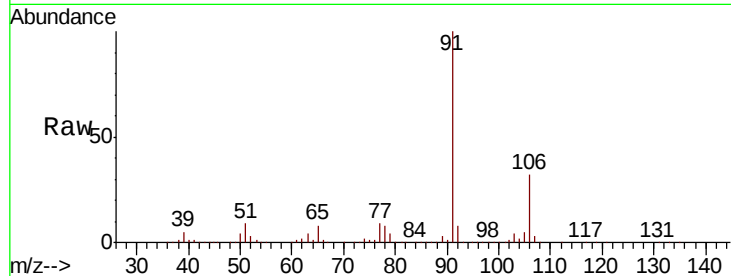
106 31.5 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

8/22/2018 11:16:49 AM



#68

m/p-Xylenes

Concen: 45.71 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VX004168.D

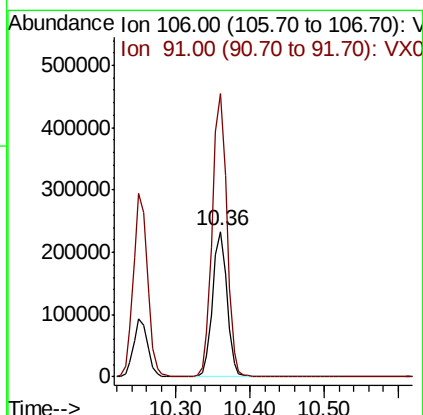
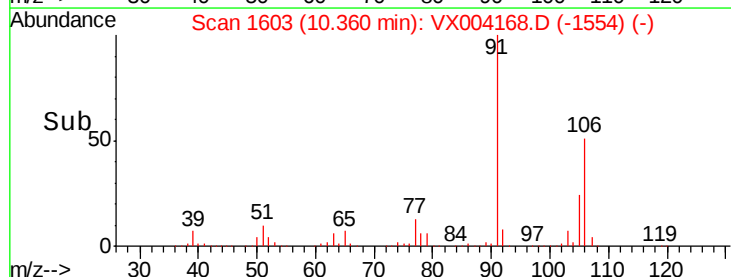
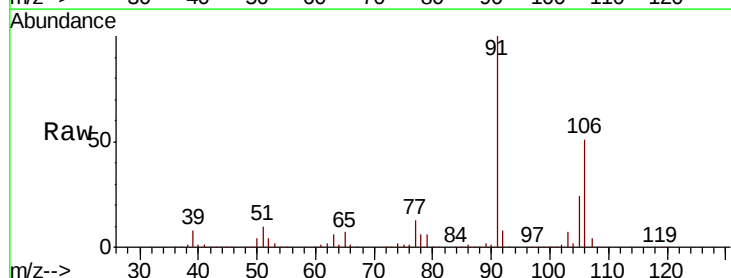
Acq: 21 Aug 2018 11:52

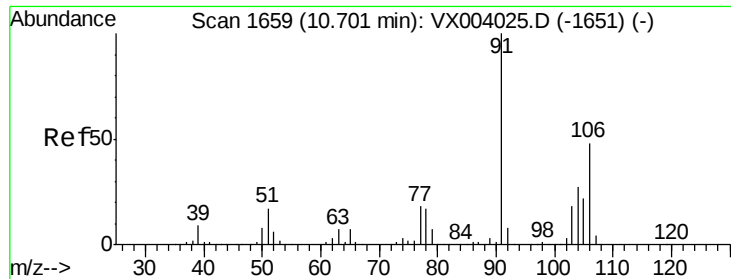
Tgt Ion: 106 Resp: 310335

Ion Ratio Lower Upper

106 100

91 197.7 162.3 243.5





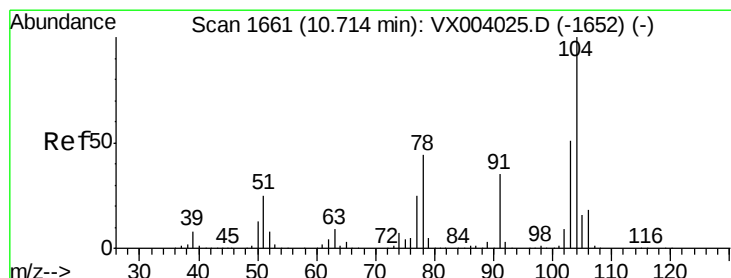
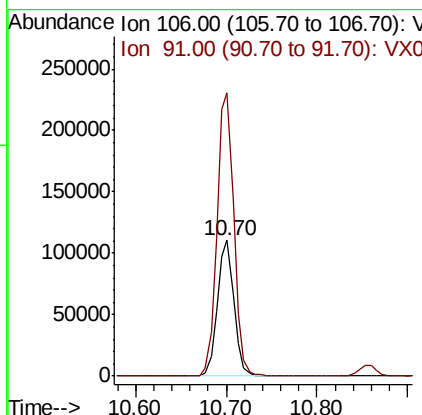
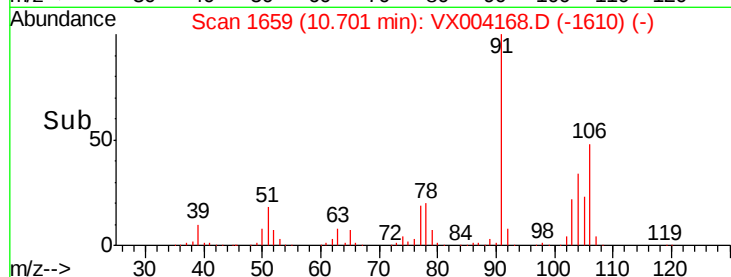
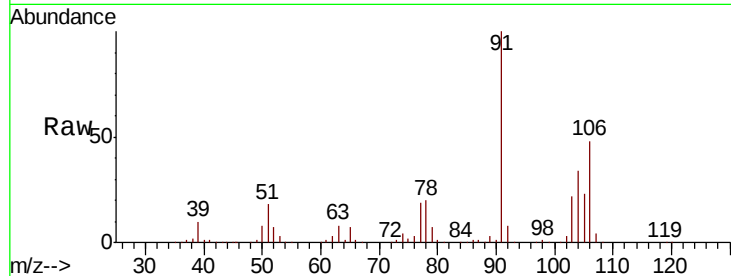
#69
o-Xylene
Concen: 21.73 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampled :
VX0821WBS01

Tot Ion:106 Resp: 140965
Ion Ratio Lower Upper
106 100
91 213.5 101.9 305.7

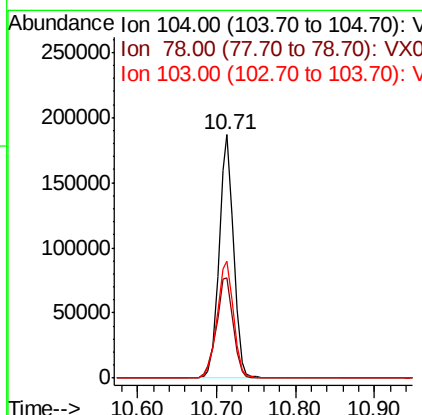
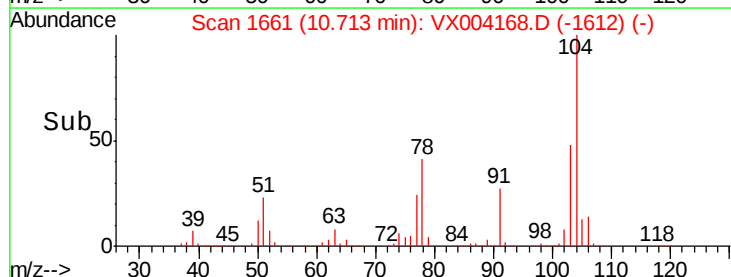
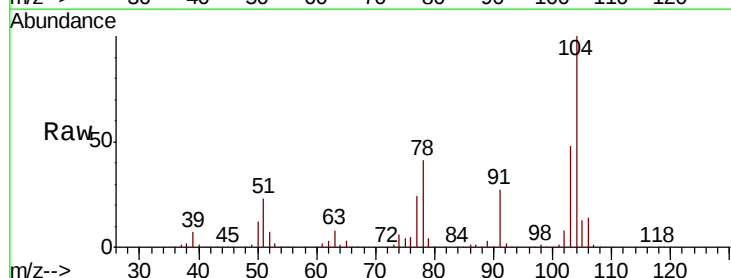
Manual Integrations
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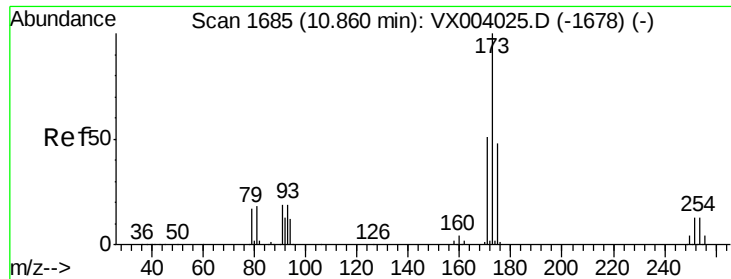
MMDadoda
8/22/2018 11:16:49 AM



#70
Styrene
Concen: 22.02 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion:104 Resp: 240471
Ion Ratio Lower Upper
104 100
78 47.8 39.8 59.6
103 54.4 44.3 66.5





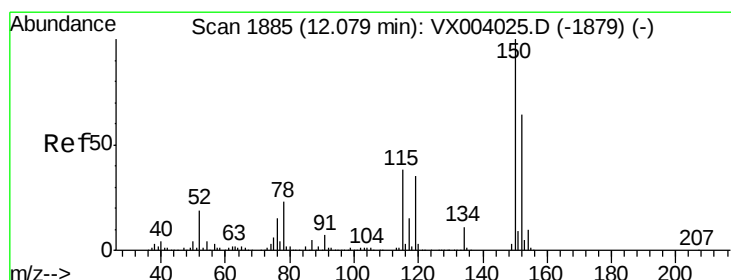
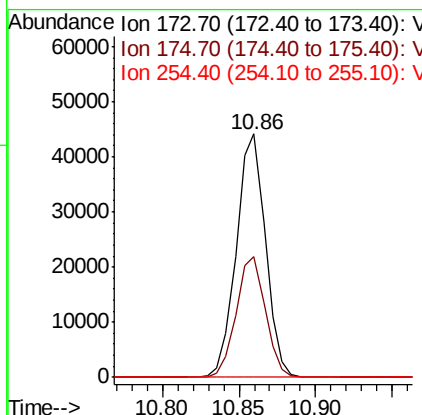
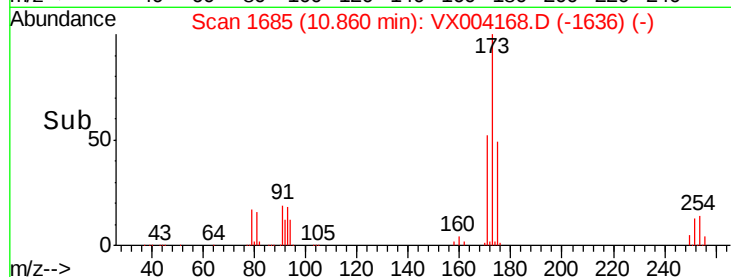
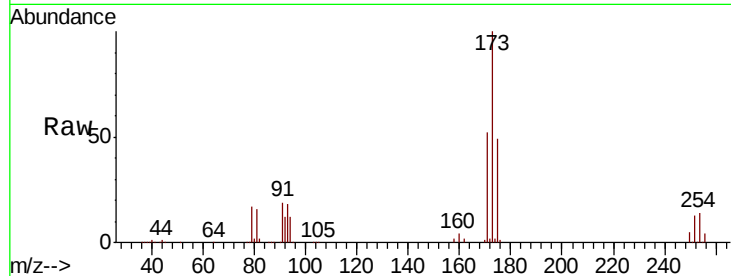
#71
Bromoform
Concen: 19.67 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.7
254	0.0	0.2	0.2

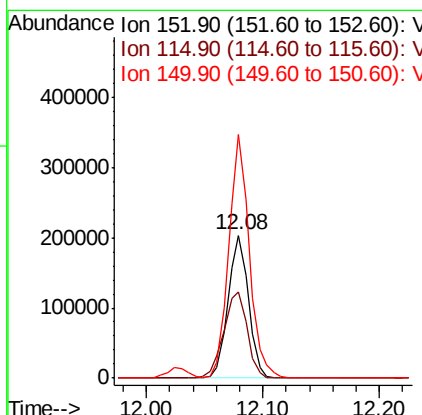
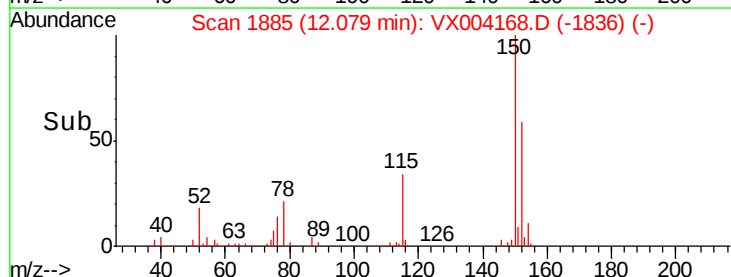
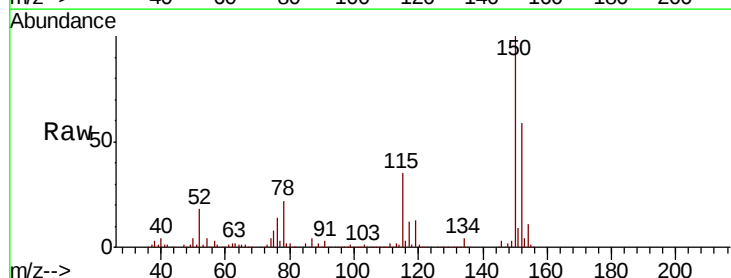
Manual Integrations
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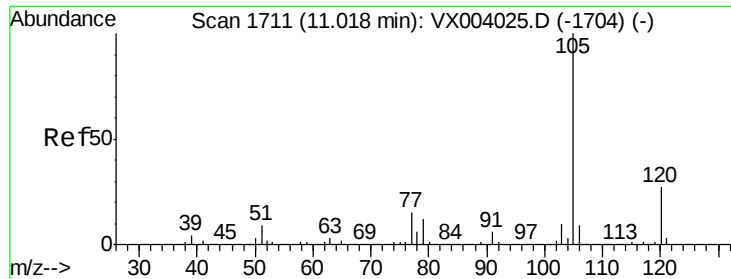
MMDadoda
8/22/2018 11:16:49 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.5	39.1	117.3
150	172.5	0.0	349.2





#73

Isopropylbenzene

Concen: 22.91 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion: 105 Resp: 381737

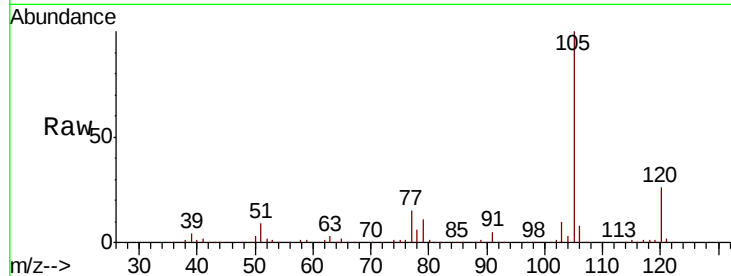
Ion Ratio Lower Upper

105 100

120 26.6 12.6 37.8

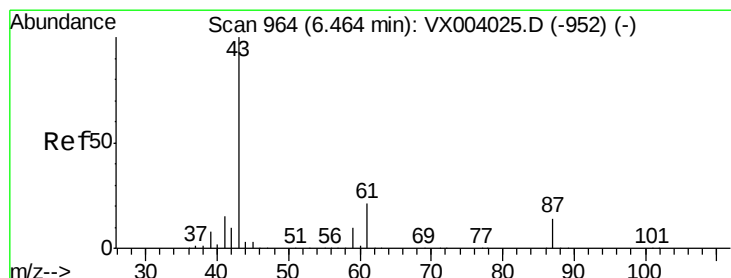
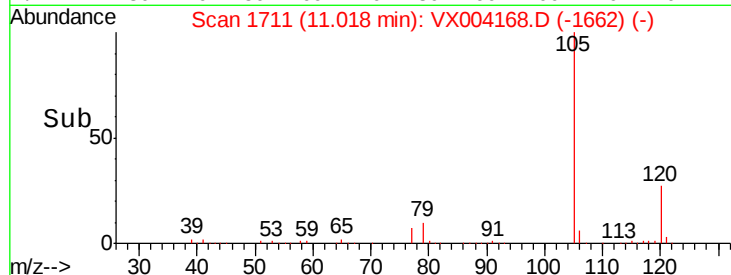
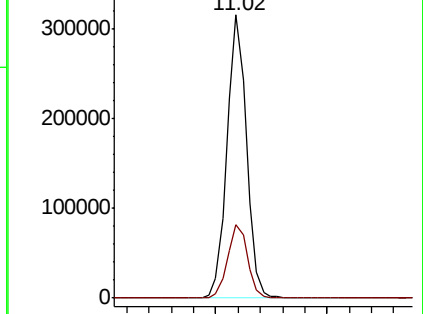
Manual Integrations
APPROVED

MMDadoda
8/22/2018 11:16:49 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.35 ug/l

RT: 6.46 min Scan# 963

Delta R.T. -0.01 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Tgt Ion: 43 Resp: 159469

Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

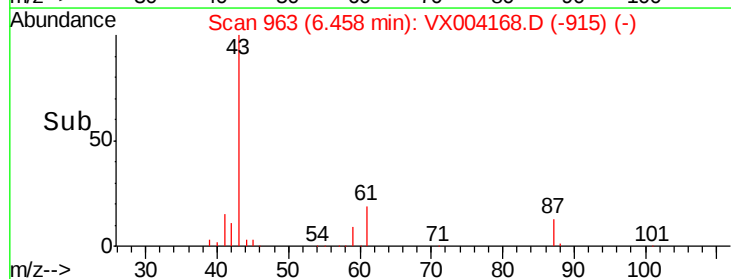
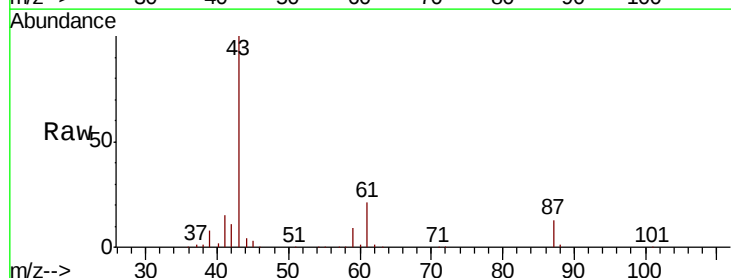
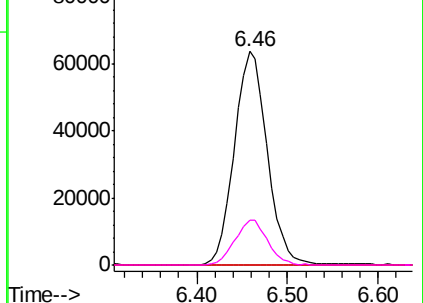
61 21.0 16.9 25.3

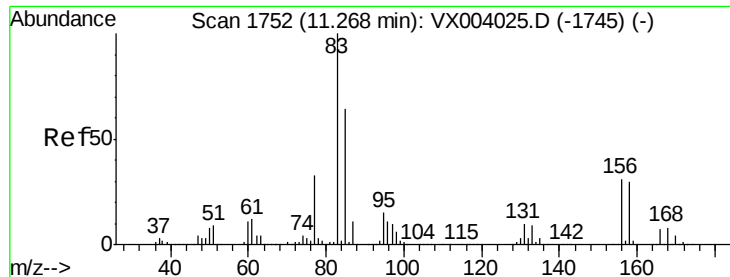
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.70 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

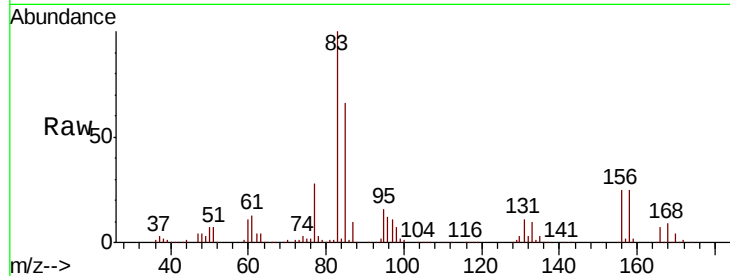
ClientSampled :

VX0821WBS01

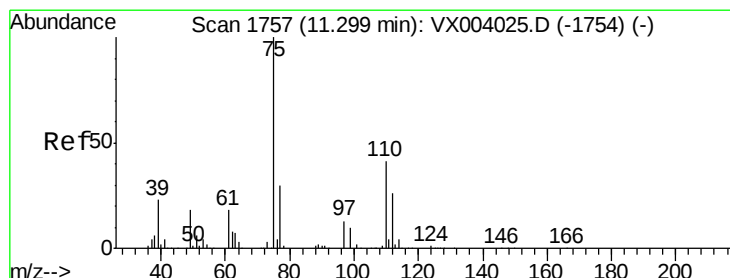
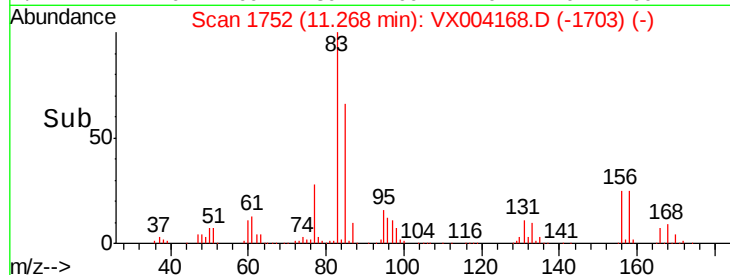
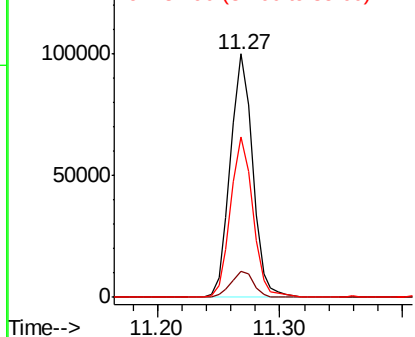
Tot Ion:	83	Resp:	126242
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.2	15.6
85	65.8	32.2	96.6

Manual Integrations
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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: 23.59 ug/l m

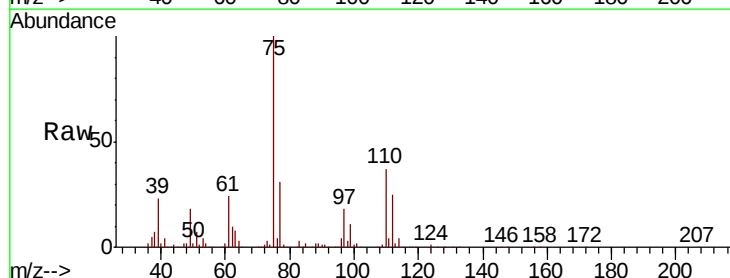
RT: 11.30 min Scan# 1757

Delta R.T. -0.00 min

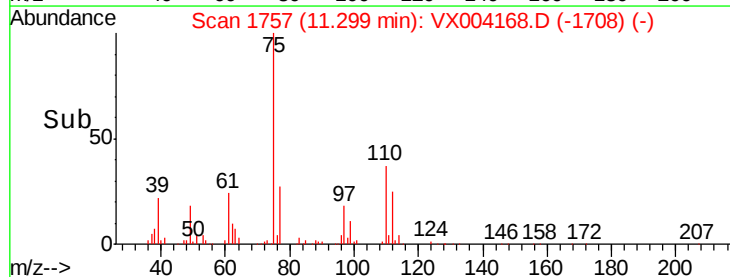
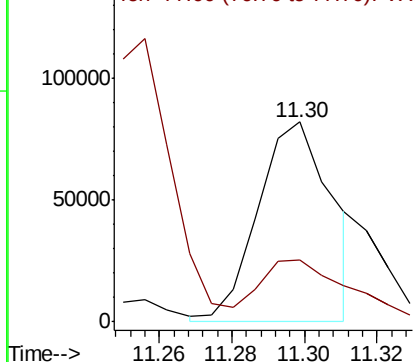
Lab File: VX004168.D

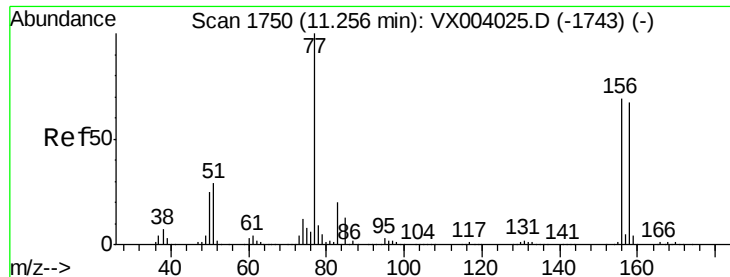
Acq: 21 Aug 2018 11:52

Tgt Ion:	75	Resp:	116456
Ion Ratio	Lower	Upper	
75	100		
77	37.7	20.8	62.5



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





#77

Bromobenzene

Concen: 22.70 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBS01

Tot Ion:156 Resp: 104229

Ion Ratio Lower Upper

156 100

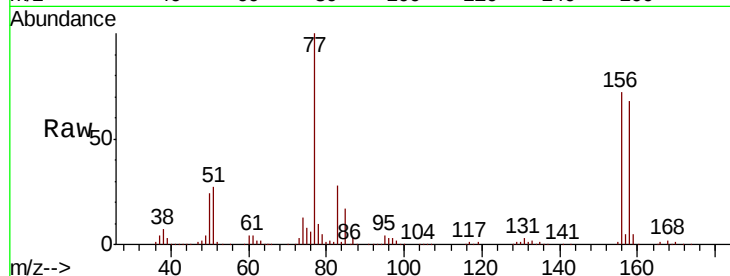
77 147.6 74.1 222.2

158 96.6 48.6 145.9

Manual Integrations
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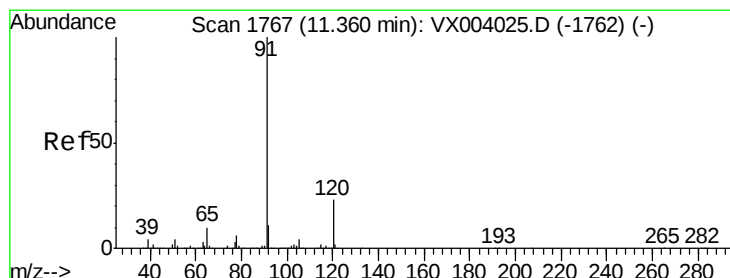
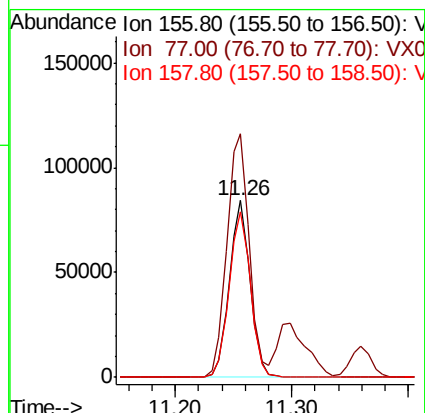
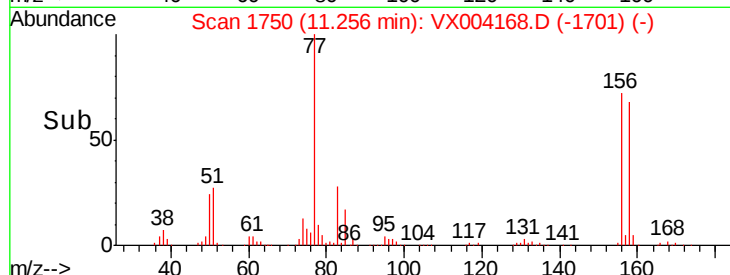
8/22/2018 11:16:49 AM



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: 23.95 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004168.D

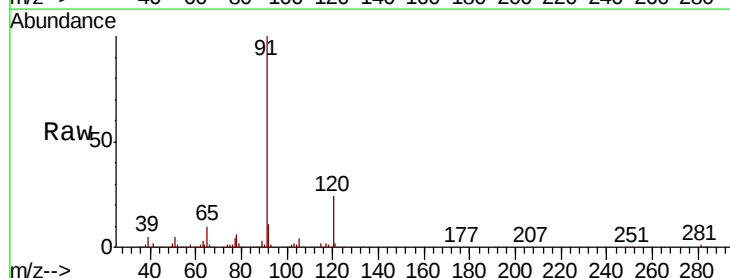
Acq: 21 Aug 2018 11:52

Tgt Ion: 91 Resp: 446460

Ion Ratio Lower Upper

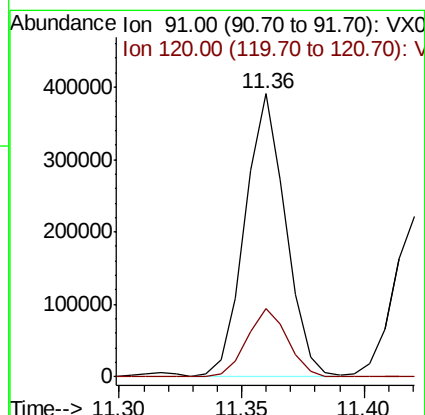
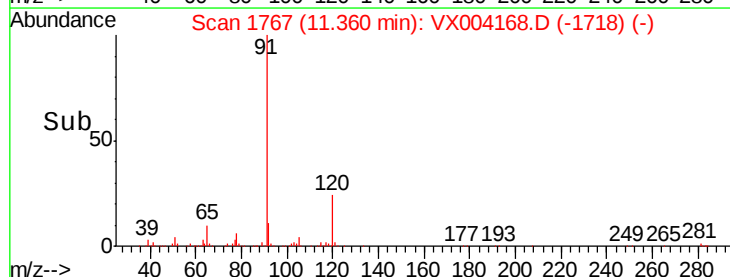
91 100

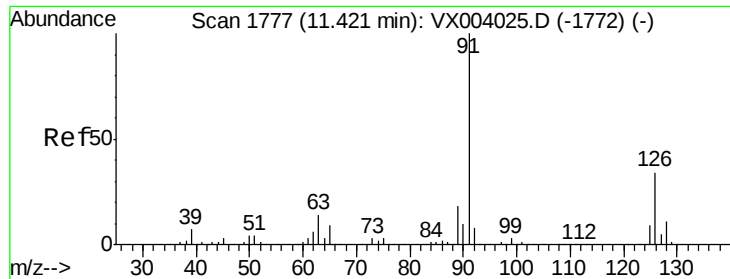
120 24.4 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.72 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. -0.00 min

Lab File: VX004168.D

Acq: 21 Aug 2018 11:52

Instrument :

MSVOA_X

ClientSampled :

VX0821WBS01

Tot Ion: 91 Resp: 269456

Ion Ratio Lower Upper

91 100

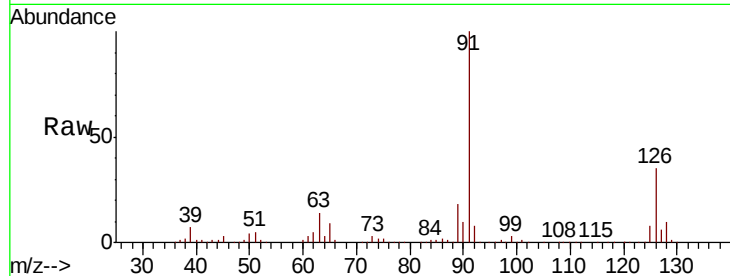
126 35.4 17.4 52.3

Manual Integrations

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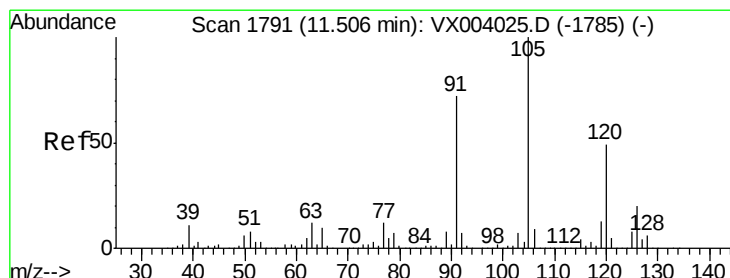
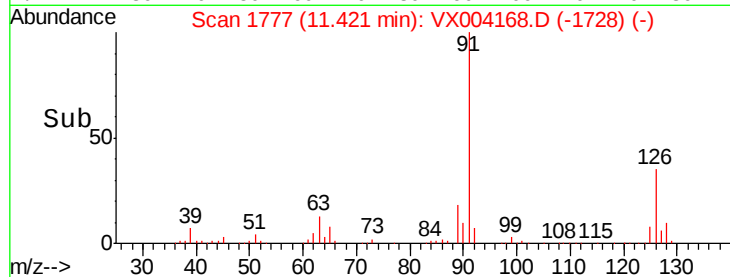
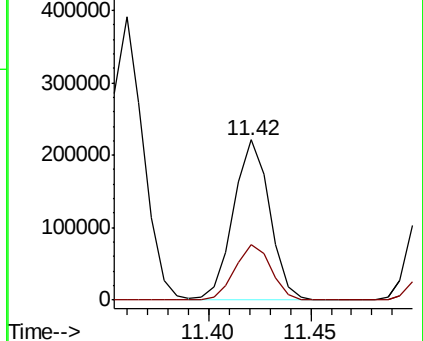
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 22.59 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX004168.D

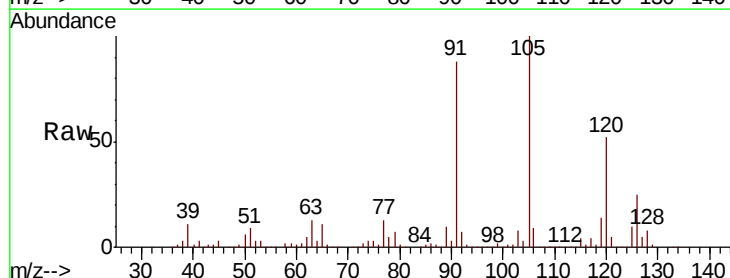
Acq: 21 Aug 2018 11:52

Tgt Ion:105 Resp: 308181

Ion Ratio Lower Upper

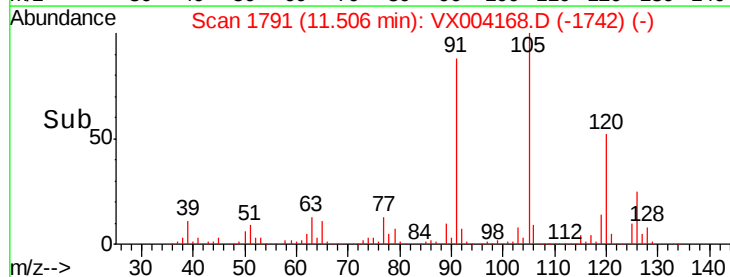
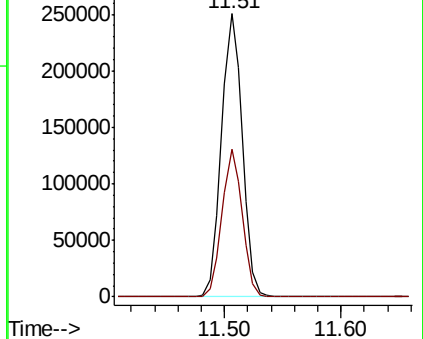
105 100

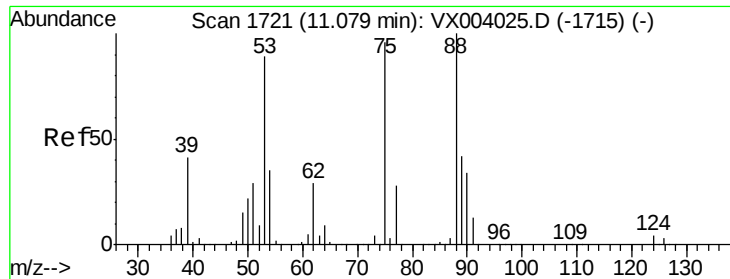
120 50.8 25.4 76.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





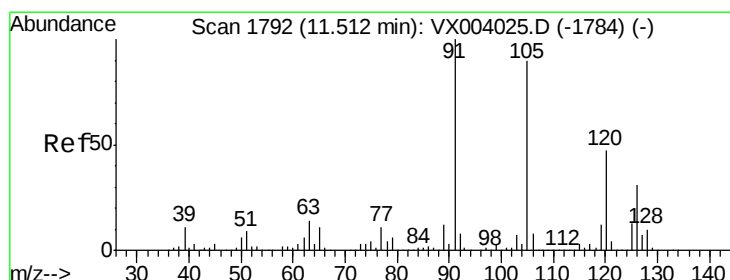
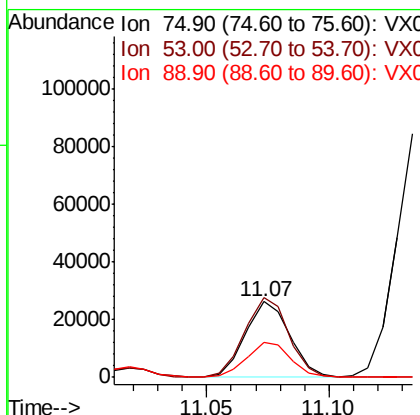
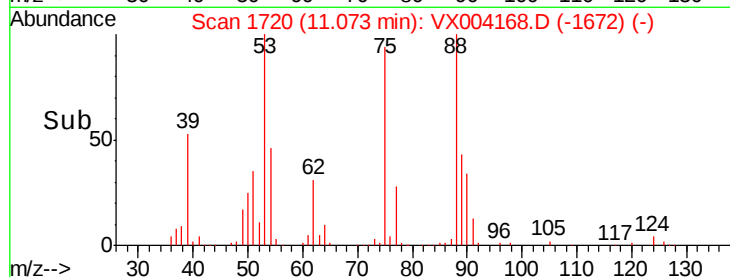
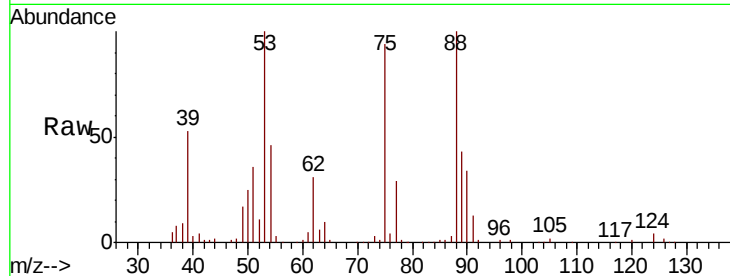
#81
trans-1,4-Dichloro-2-butene
Concen: 20.63 ug/l
RT: 11.07 min Scan# 1720
Delta R.T. -0.01 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	104.6	80.3	120.5
89	46.5	37.8	56.8

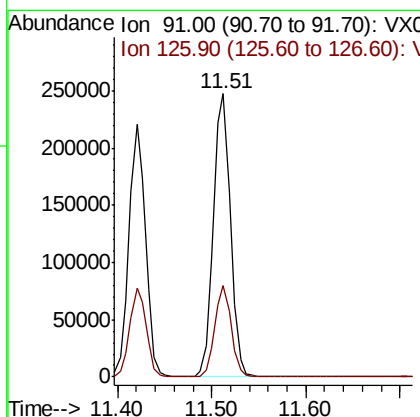
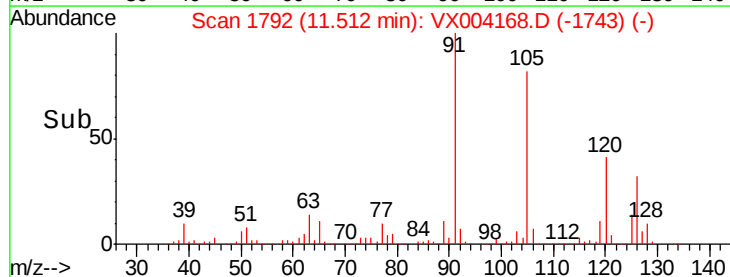
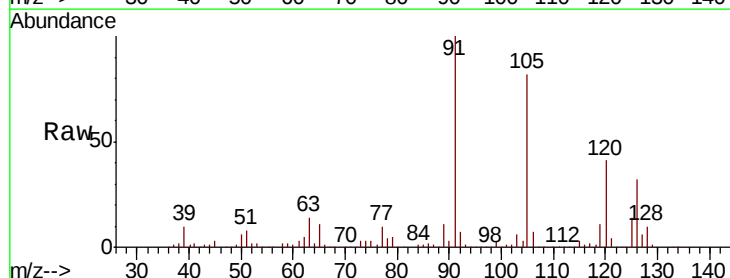
Manual Integrations
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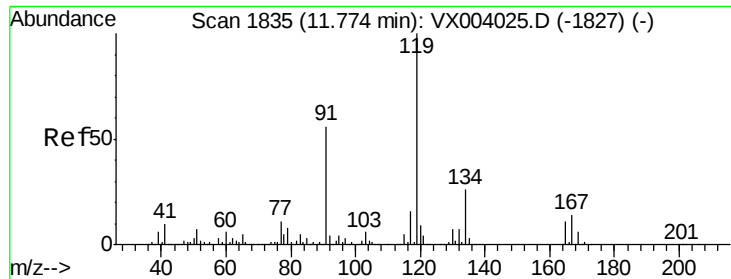
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#82
4-Chlorotoluene
Concen: 23.15 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.6	46.7





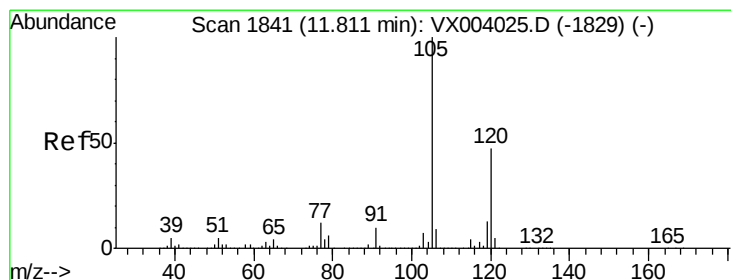
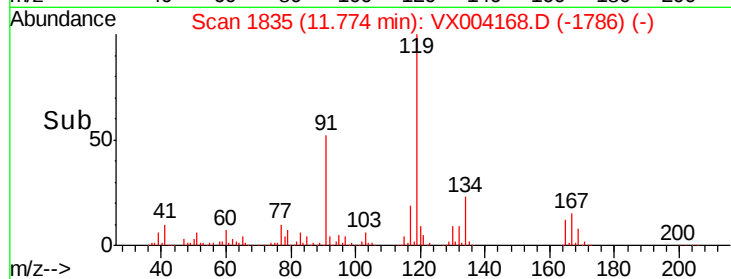
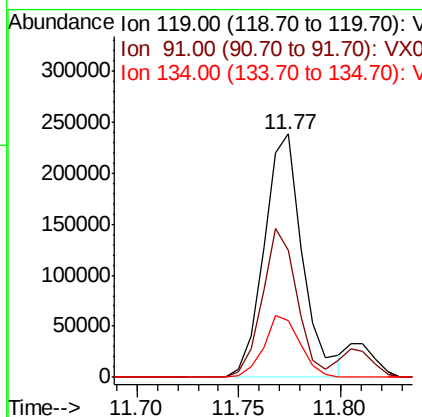
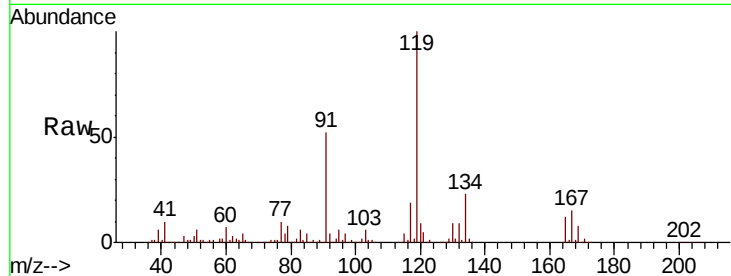
#83
 tert-Butylbenzene
 Concen: 22.73 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	312616		
91	55.5	26.9	80.7	
134	24.1	12.0	36.0	

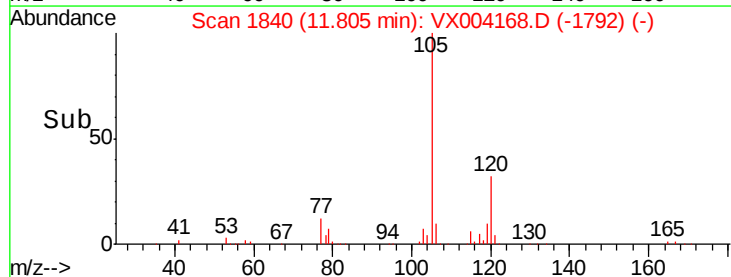
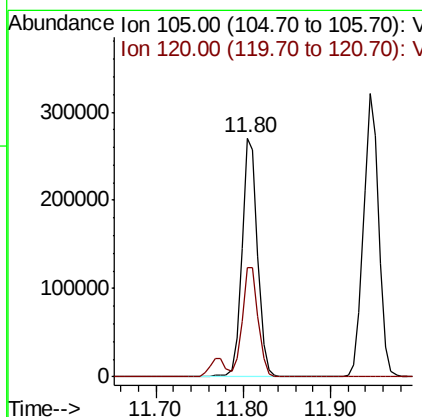
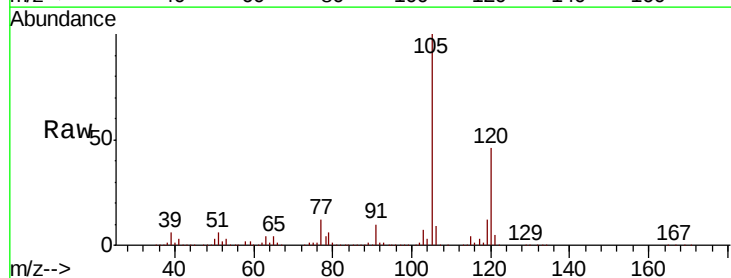
Manual Integrations
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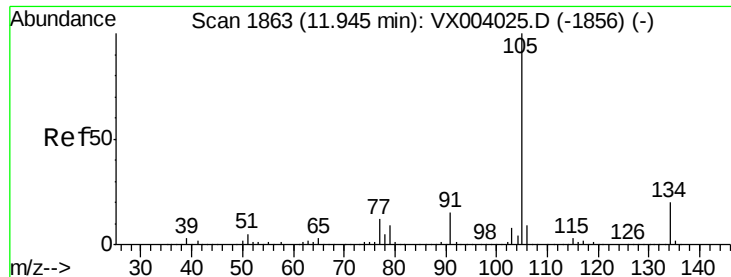
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#84
 1,2,4-Trimethylbenzene
 Concen: 23.83 ug/l
 RT: 11.80 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	336608		
120	46.5	23.1	69.2	





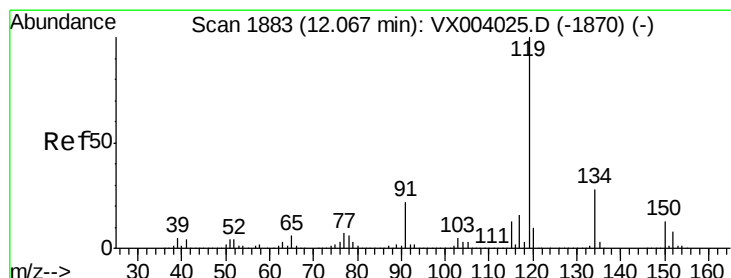
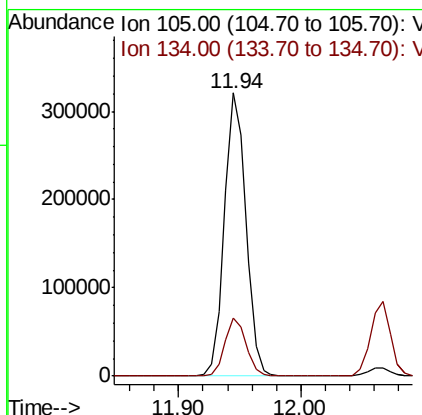
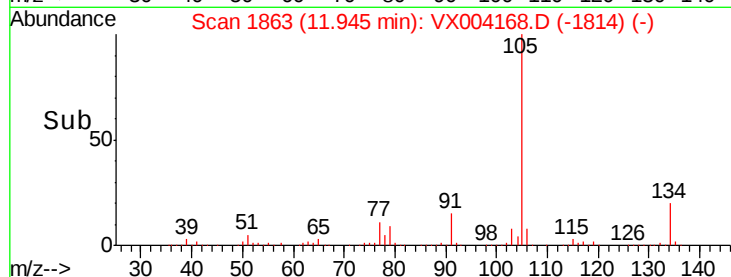
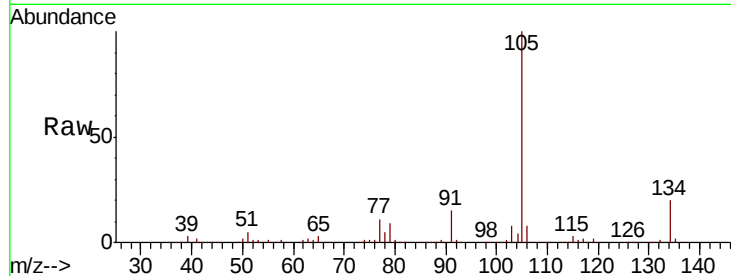
#85
 sec-Butylbenzene
 Concen: 24.14 ug/l
 RT: 11.94 min Scan# 1863
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.3	30.9

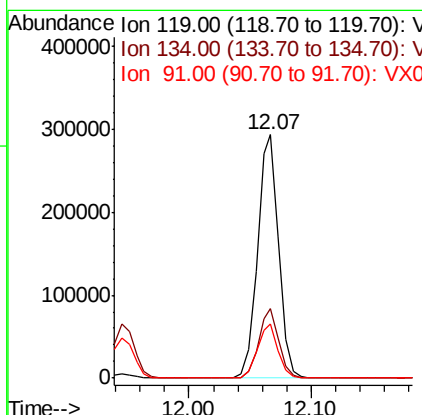
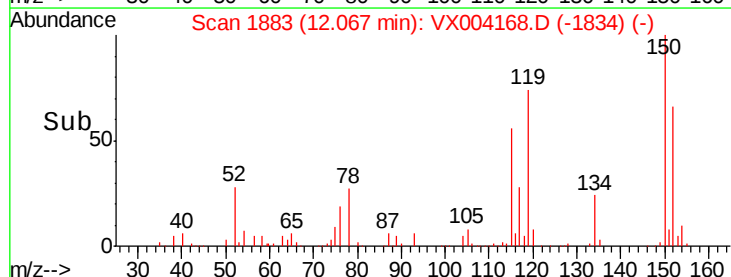
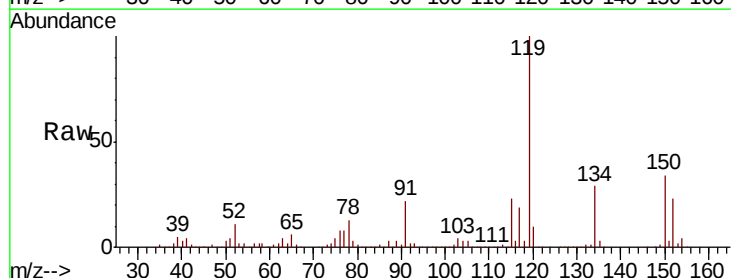
Manual Integrations
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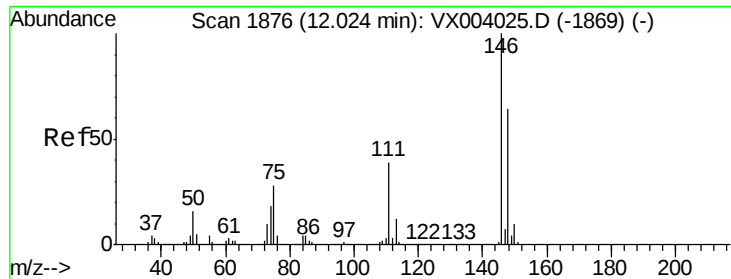
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#86
 p-Isopropyltoluene
 Concen: 24.21 ug/l
 RT: 12.07 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.3	39.8
91	21.6	10.9	32.7





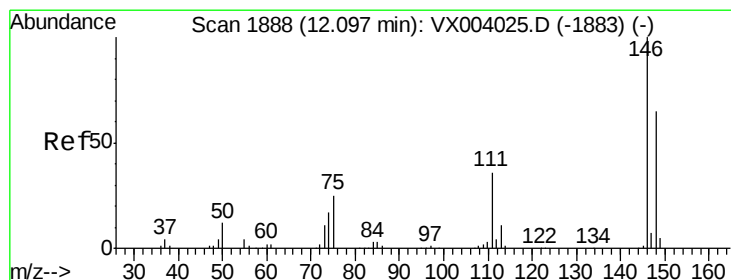
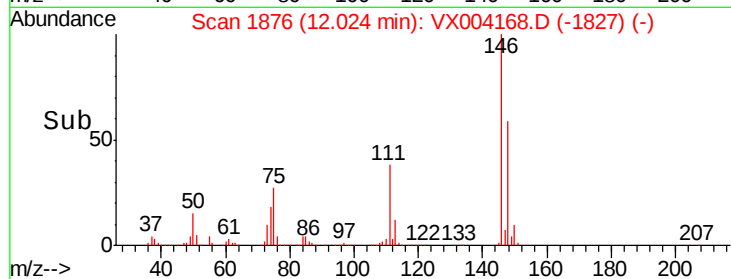
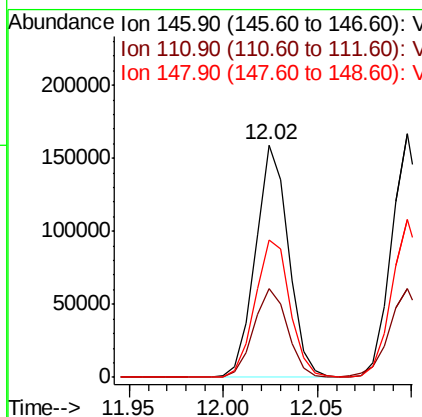
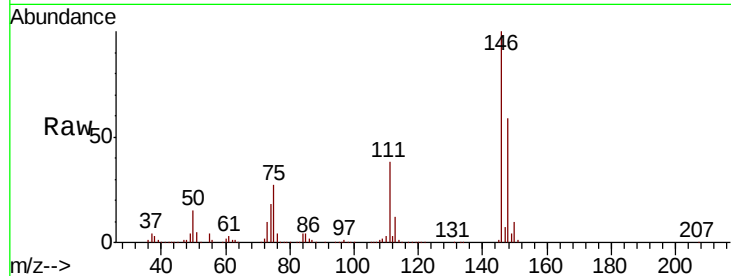
#87
 1,3-Dichlorobenzene
 Concen: 21.99 ug/l
 RT: 12.02 min Scan# 1876
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	18.8	56.4
148	62.5	31.9	95.5

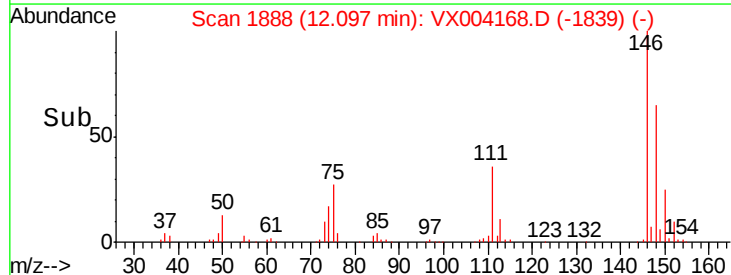
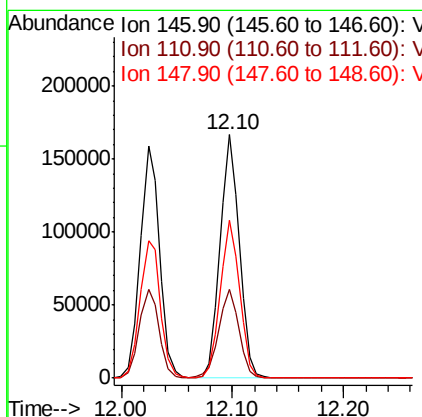
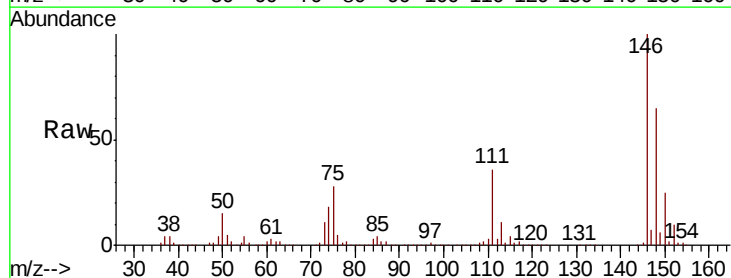
Manual Integrations
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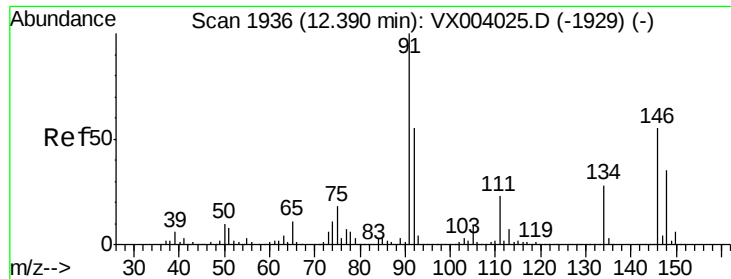
MMDadoda
 8/22/2018 11:16:49 AM



#88
 1,4-Dichlorobenzene
 Concen: 22.21 ug/l
 RT: 12.10 min Scan# 1888
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.4	55.0
148	65.3	32.3	96.8





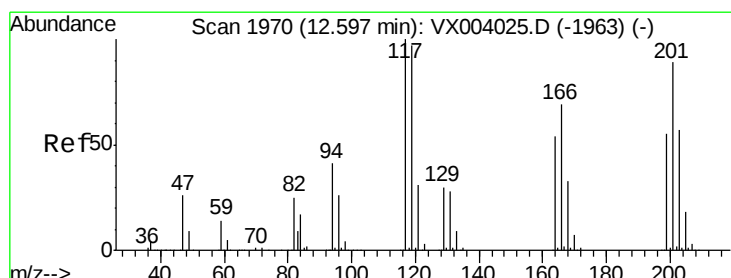
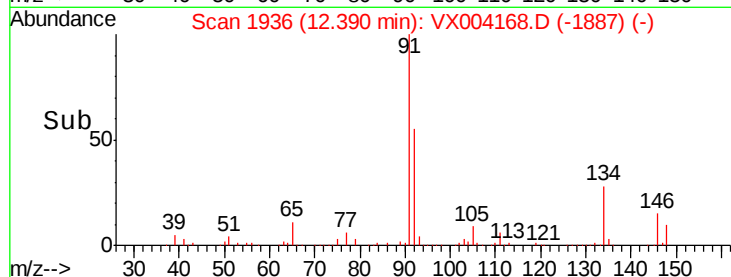
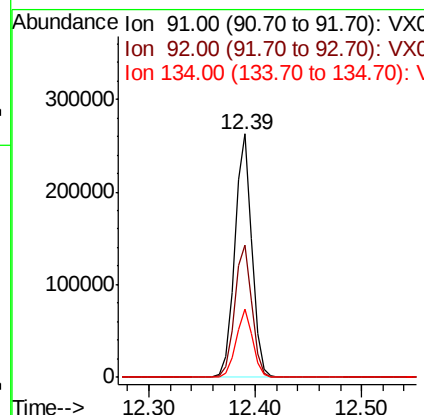
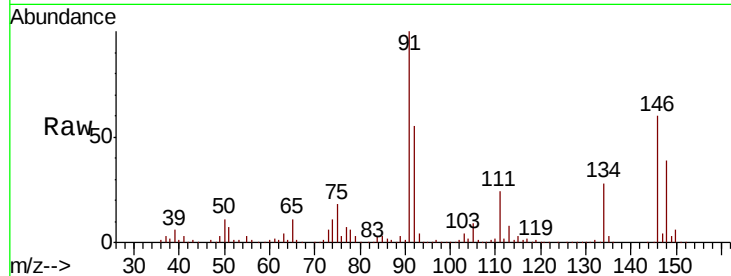
#89
n-Butylbenzene
Concen: 25.61 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.1	81.3
134	27.2	13.6	40.7

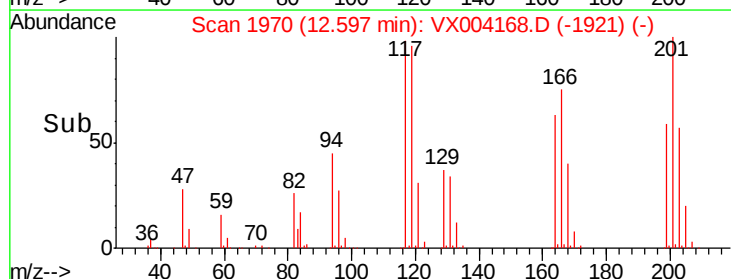
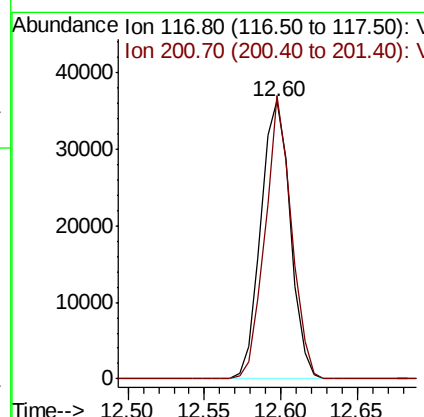
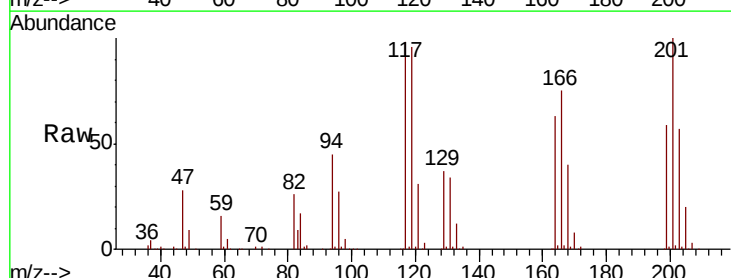
Manual Integrations
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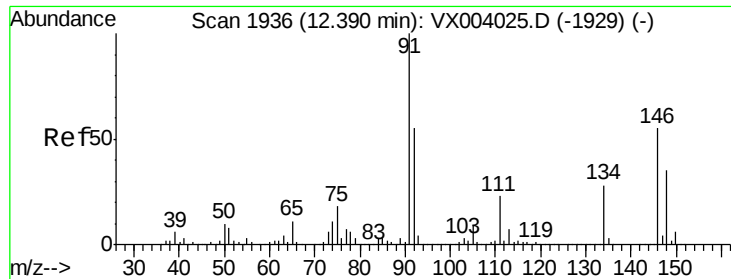
MMDadoda
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#90
Hexachloroethane
Concen: 22.49 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.1	46.1	138.2





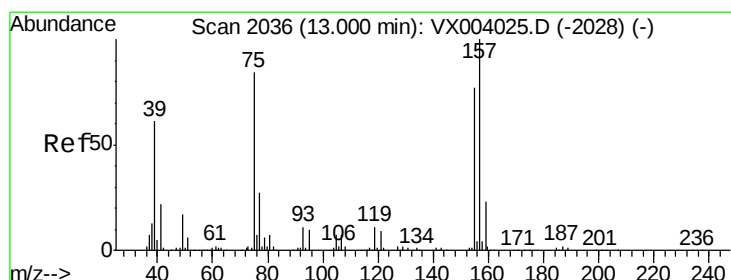
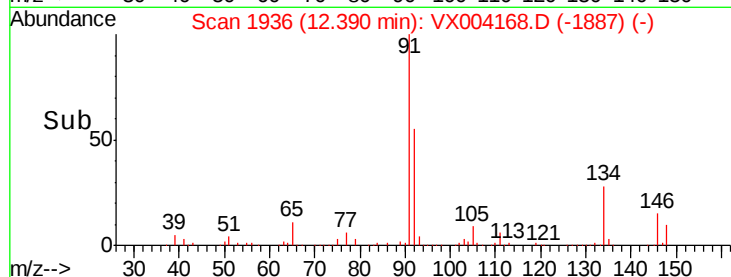
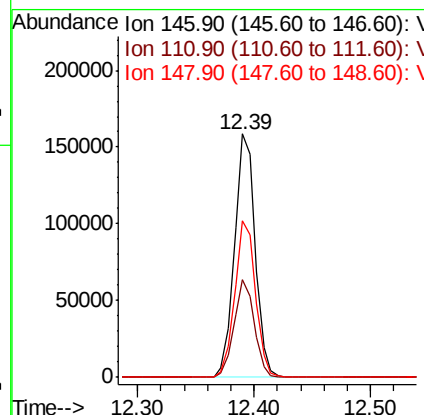
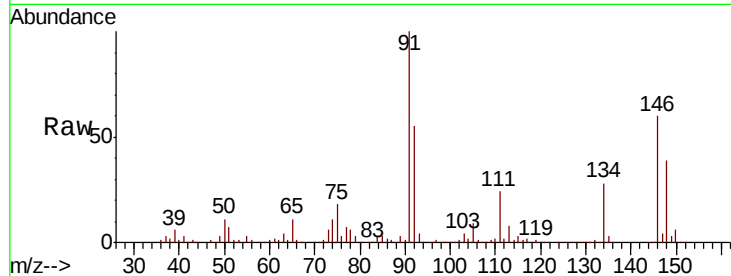
#91
 1,2-Dichlorobenzene
 Concen: 24.79 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	195825		
111	39.4	19.7	59.0	
148	64.9	31.9	95.5	

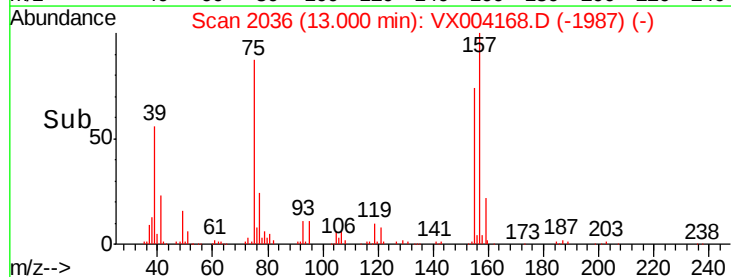
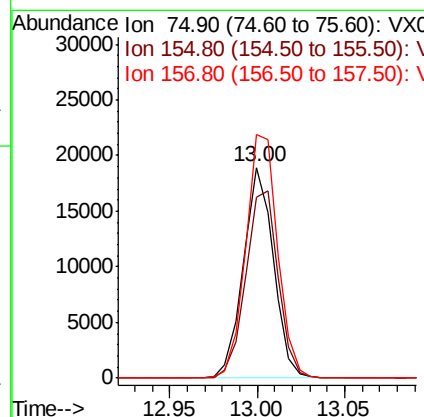
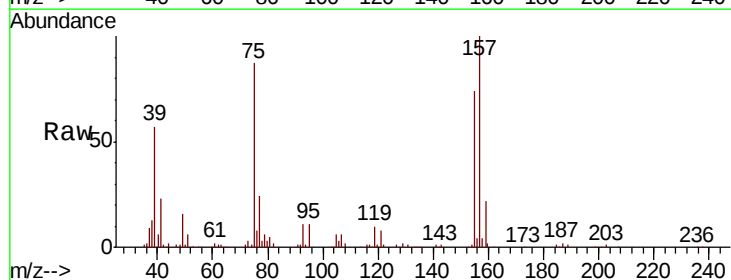
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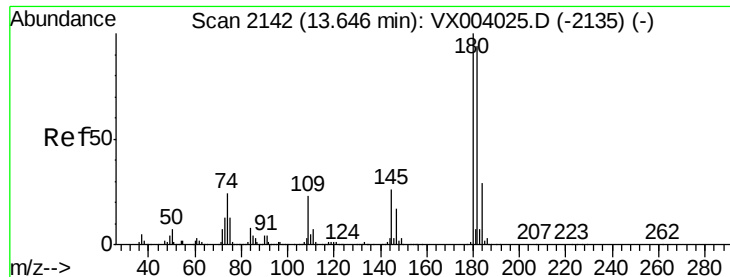
MMDadoda
 8/22/2018 11:16:49 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.17 ug/l
 RT: 13.00 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22674		
155	95.4	48.7	146.1	
157	122.4	62.6	187.8	





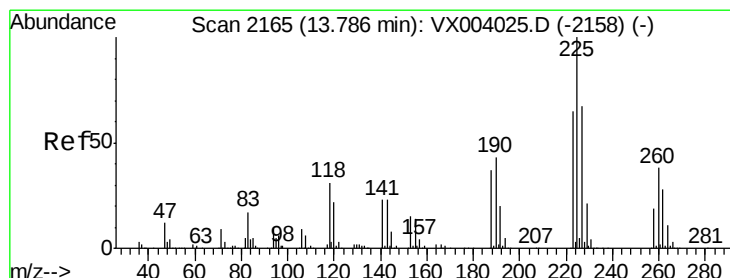
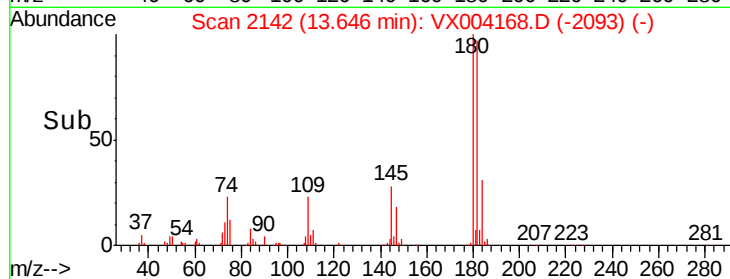
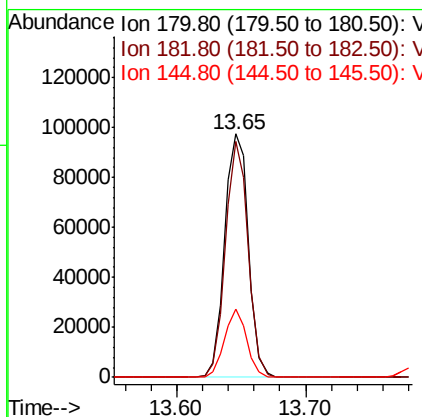
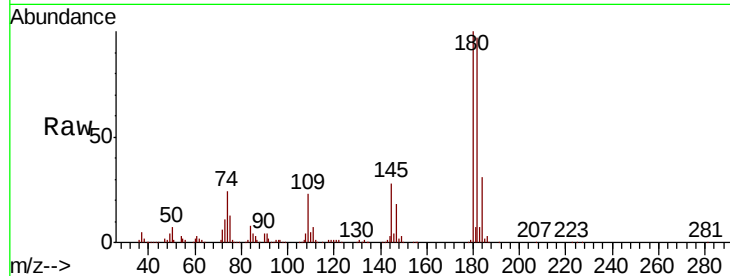
#93
 1,2,4-Trichlorobenzene
 Concen: 23.39 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	126329		
182	92.7	47.7	143.1	
145	26.6	13.9	41.6	

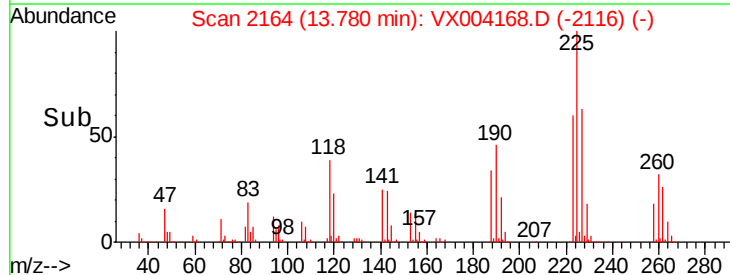
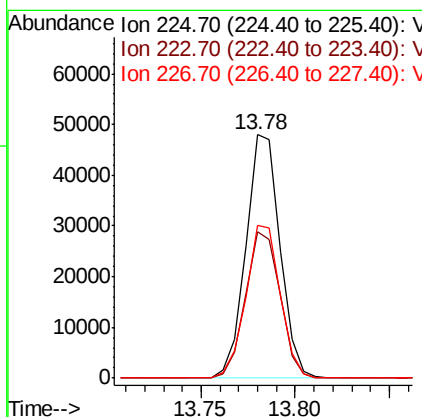
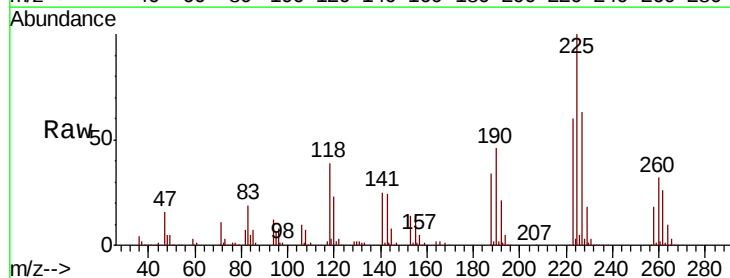
Manual Integrations
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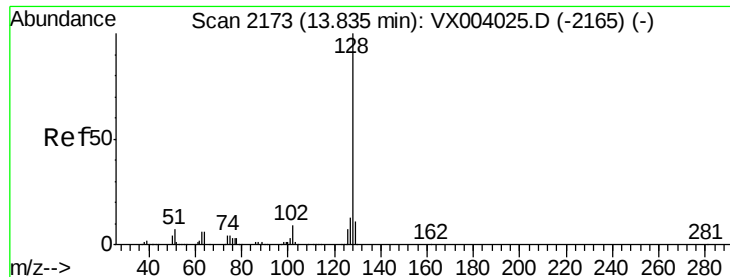
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#94
 Hexachlorobutadiene
 Concen: 22.22 ug/l
 RT: 13.78 min Scan# 2164
 Delta R.T. -0.01 min
 Lab File: VX004168.D
 Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	60134		
223	61.2	31.4	94.0	
227	63.5	32.1	96.5	





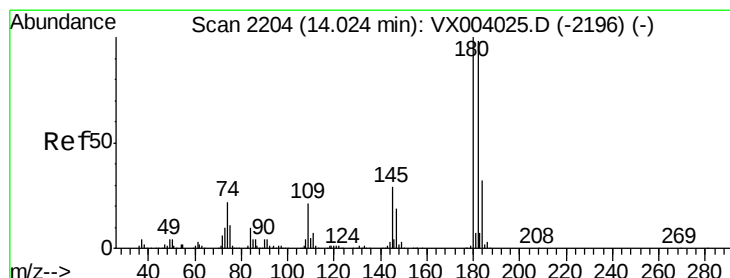
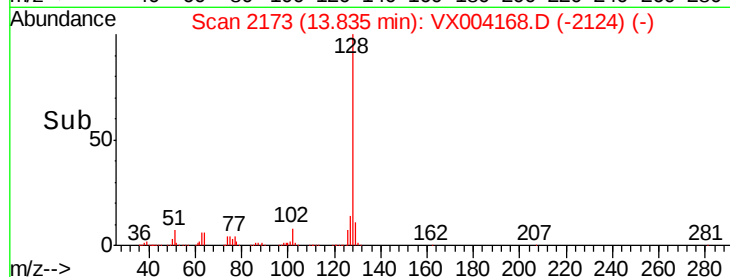
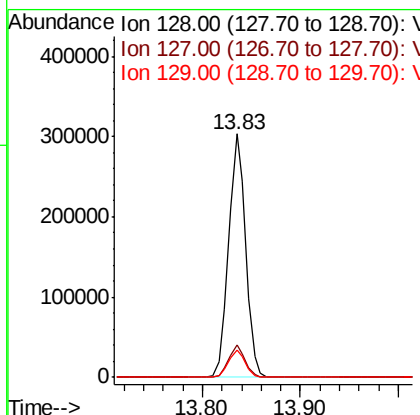
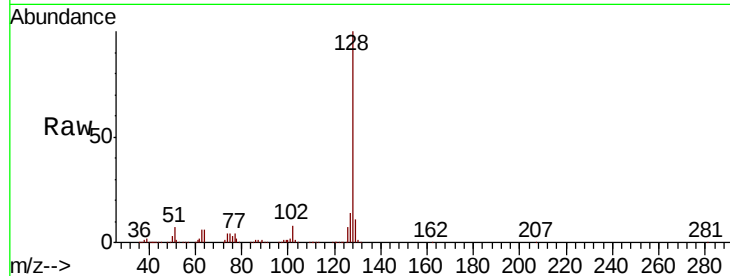
#95
Naphthalene
Concen: 21.92 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	365969		
127	13.0		10.2	15.2
129	11.1		8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 22.21 ug/l
RT: 14.02 min Scan# 2204
Delta R.T. -0.00 min
Lab File: VX004168.D
Acq: 21 Aug 2018 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	130778		
182	99.8		48.1	144.4
145	30.4		14.9	44.7

