

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091218\
 Data File : VX004491.D
 Acq On : 12 Sep 2018 13:40
 Operator : JC/MD
 Sample : VX0912MBS02
 Misc : 5.0uL/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Manual Integrations
 APPROVED

MMDadoda
 9/13/2018 10:58:49 AM

Quant Time: Sep 13 02:02:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	364039	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208157	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	168323	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
35) Dibromofluoromethane	5.50	113	143007	42.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.86%	
50) Toluene-d8	8.72	98	556198	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.14	95	202129	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	50419	20.99	ug/l	98
3) Chloromethane	1.32	50	70143	21.21	ug/l	100
4) Vinyl Chloride	1.40	62	70953	20.91	ug/l	99
5) Bromomethane	1.64	94	37225	25.62	ug/l	99
6) Chloroethane	1.71	64	43619	19.88	ug/l	98
7) Trichlorofluoromethane	1.92	101	90715	20.16	ug/l	95
8) Diethyl Ether	2.19	74	42039	20.84	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	57217	20.05	ug/l	99
10) Methyl Iodide	2.51	142	57894	19.78	ug/l	99
11) Tert butyl alcohol	3.07	59	87226	110.60	ug/l	100
12) 1,1-Dichloroethene	2.37	96	55350	20.66	ug/l	98
13) Acrolein	2.29	56	36539	117.36	ug/l	95
14) Allyl chloride	2.72	41	112769	20.48	ug/l	95
15) Acrylonitrile	3.15	53	202101	106.41	ug/l	99
16) Acetone	2.45	43	163537	101.37	ug/l	100
17) Carbon Disulfide	2.57	76	145244	18.76	ug/l	99
18) Methyl Acetate	2.78	43	95598	21.12	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	200326	21.32	ug/l	97
20) Methylene Chloride	2.86	84	66856	20.20	ug/l	89
21) trans-1,2-Dichloroethene	3.16	96	59654	20.16	ug/l	95
22) Diisopropyl ether	3.87	45	200193	20.19	ug/l	96
23) Vinyl Acetate	3.82	43	908197	113.16	ug/l	97
24) 1,1-Dichloroethane	3.70	63	116587	20.82	ug/l	98
25) 2-Butanone	4.71	43	248798	96.90	ug/l	98
26) 2,2-Dichloropropane	4.58	77	78441	20.40	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	63419	19.19	ug/l	96
28) Bromochloromethane	5.02	49	52106	20.34	ug/l	95
29) Tetrahydrofuran	5.17	42	162660	105.05	ug/l	96
30) Chloroform	5.21	83	104425	19.10	ug/l	99
31) Cyclohexane	5.57	56	96760	20.24	ug/l	94
32) 1,1,1-Trichloroethane	5.49	97	86608	19.67	ug/l	100
36) 1,1-Dichloropropene	5.80	75	79470	17.98	ug/l	100
37) Ethyl Acetate	4.87	43	91011	18.11	ug/l	98
38) Carbon Tetrachloride	5.78	117	74065	17.16	ug/l	95

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MMDadoda
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 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	93800	20.34	ug/l	96
40) Benzene	6.14	78	247226	18.85	ug/l	100
41) Methacrylonitrile	5.06	41	51316	18.53	ug/l	99
42) 1,2-Dichloroethane	6.20	62	82360	18.94	ug/l	99
43) Isopropyl Acetate	6.47	43	135631	20.32	ug/l	98
44) Trichloroethene	7.21	130	67795	19.90	ug/l	97
45) 1,2-Dichloropropane	7.52	63	64460	20.43	ug/l	99
46) Dibromomethane	7.67	93	39863	20.00	ug/l	99
47) Bromodichloromethane	7.90	83	72326	19.19	ug/l	99
48) Methyl methacrylate	7.78	41	69528	21.04	ug/l	97
49) 1,4-Dioxane	7.76	88	33629	430.03	ug/l	95
51) 4-Methyl-2-Pentanone	8.65	43	469389	99.63	ug/l	98
52) Toluene	8.79	92	153923	19.92	ug/l	97
53) t-1,3-Dichloropropene	9.04	75	82367	18.70	ug/l	99
54) cis-1,3-Dichloropropene	8.44	75	92656	20.64	ug/l	98
55) 1,1,2-Trichloroethane	9.22	97	61914	18.61	ug/l	97
56) Ethyl methacrylate	9.18	69	89982	19.12	ug/l	97
57) 1,3-Dichloropropane	9.37	76	104842	19.40	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	238242	103.74	ug/l	95
59) 2-Hexanone	9.50	43	364105	100.75	ug/l	96
60) Dibromochloromethane	9.59	129	57922	18.49	ug/l	100
61) 1,2-Dibromoethane	9.68	107	64387	20.26	ug/l	99
64) Tetrachloroethene	9.34	164	78283	18.02	ug/l	97
65) Chlorobenzene	10.14	112	171552	19.84	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.23	131	57584	19.32	ug/l	99
67) Ethyl Benzene	10.26	91	284725	20.26	ug/l	96
68) m/p-Xylenes	10.36	106	222215	41.04	ug/l	96
69) o-Xylene	10.70	106	106922	20.54	ug/l	99
70) Styrene	10.71	104	178610	20.71	ug/l	98
71) Bromoform	10.86	173	43502	17.77	ug/l #	97
73) Isopropylbenzene	11.02	105	292124	21.31	ug/l	99
74) N-amyl acetate	10.90	43	120254	20.84	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.27	83	90698	20.51	ug/l	98
76) 1,2,3-Trichloropropane	11.30	75	85648m	20.45	ug/l	
77) Bromobenzene	11.26	156	77213	20.38	ug/l	98
78) n-propylbenzene	11.36	91	338167	21.45	ug/l	100
79) 2-Chlorotoluene	11.42	91	199719	20.89	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	244368	21.20	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.08	75	25677	19.54	ug/l	96
82) 4-Chlorotoluene	11.51	91	233325	20.91	ug/l	100
83) tert-Butylbenzene	11.77	119	226415	20.64	ug/l	95
84) 1,2,4-Trimethylbenzene	11.81	105	250831	21.32	ug/l	99
85) sec-Butylbenzene	11.95	105	295730	21.15	ug/l	99
86) p-Isopropyltoluene	12.07	119	263325	21.33	ug/l	99
87) 1,3-Dichlorobenzene	12.03	146	142343	20.13	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	144407	19.77	ug/l	99
89) n-Butylbenzene	12.39	91	229333	20.38	ug/l	97
90) Hexachloroethane	12.60	117	36202	18.32	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	141392	19.76	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	19296	20.44	ug/l	99

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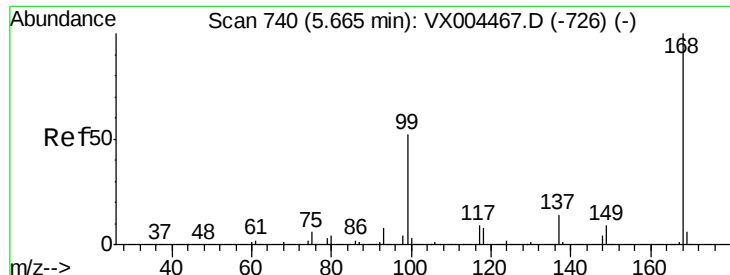
Manual Integrations
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9/13/2018 10:58:49 AM

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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	101855	20.10	ug/l	99
94) Hexachlorobutadiene	13.79	225	50666	19.14	ug/l	97
95) Naphthalene	13.83	128	304970	21.46	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	105606	20.29	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion:168 Resp: 256343

Ion Ratio Lower Upper

168 100

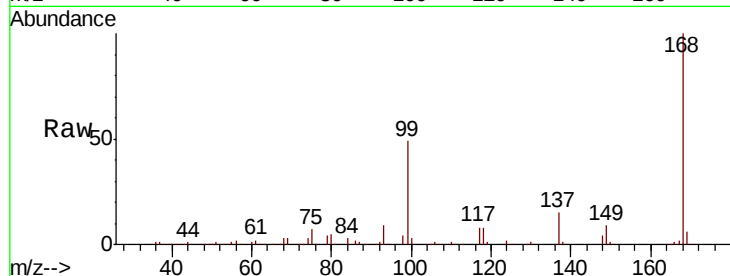
99 48.9 39.9 59.9

Manual Integrations

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9/13/2018 10:58:49 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

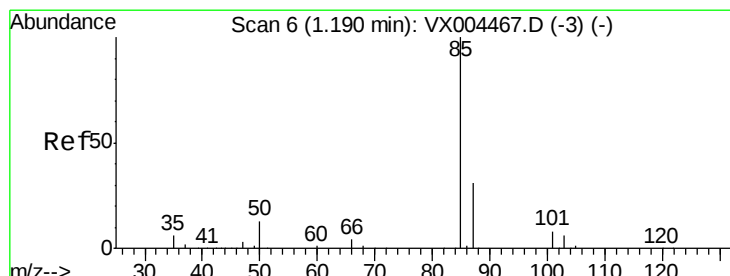
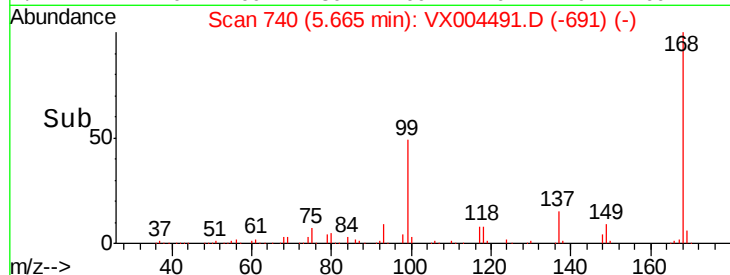
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 20.99 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.01 min

Lab File: VX004491.D

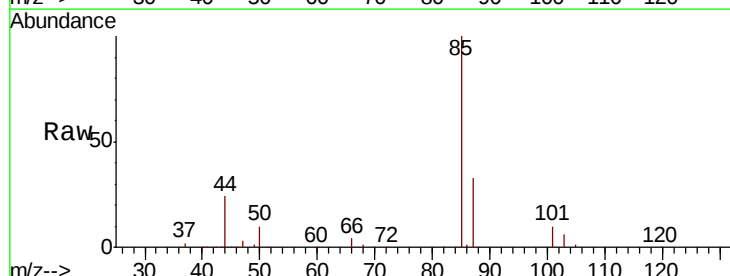
Acq: 12 Sep 2018 13:40

Tgt Ion: 85 Resp: 50419

Ion Ratio Lower Upper

85 100

87 32.8 17.0 50.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

50000

40000

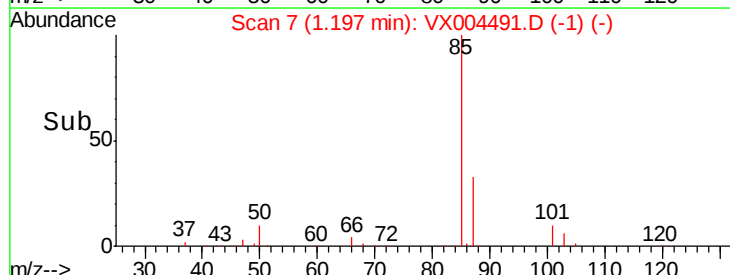
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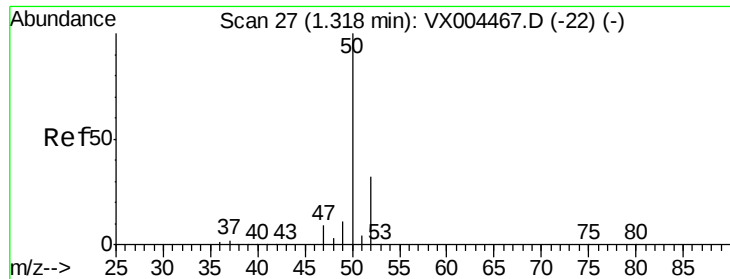
20000

10000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 21.21 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 50 Resp: 70143

Ion Ratio Lower Upper

50 100

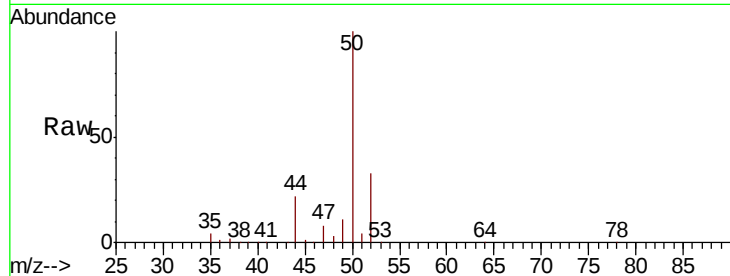
52 32.5 26.2 39.2

Manual Integrations

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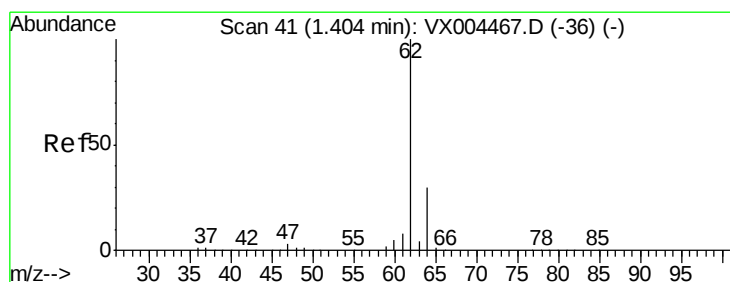
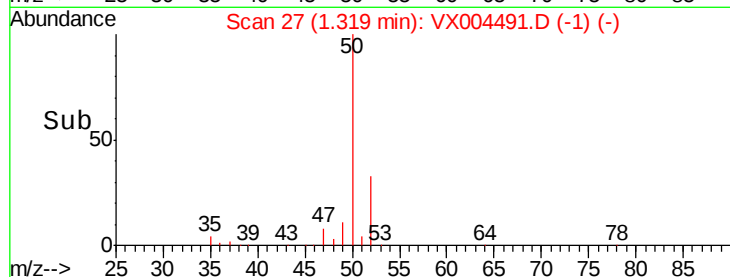
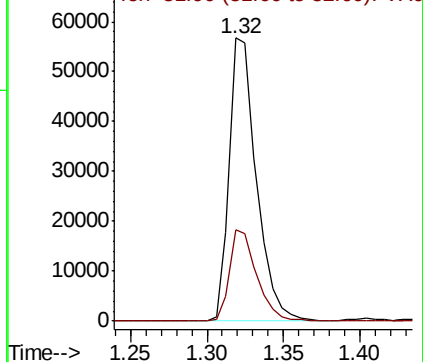
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 20.91 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX004491.D

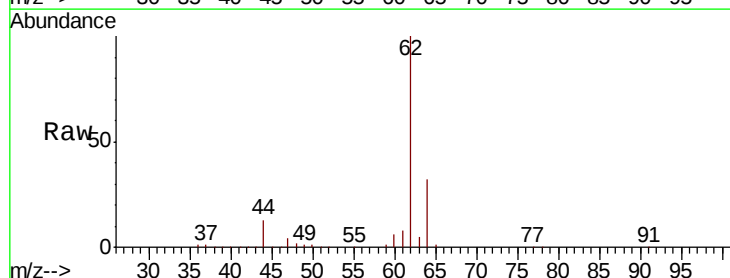
Acq: 12 Sep 2018 13:40

Tgt Ion: 62 Resp: 70953

Ion Ratio Lower Upper

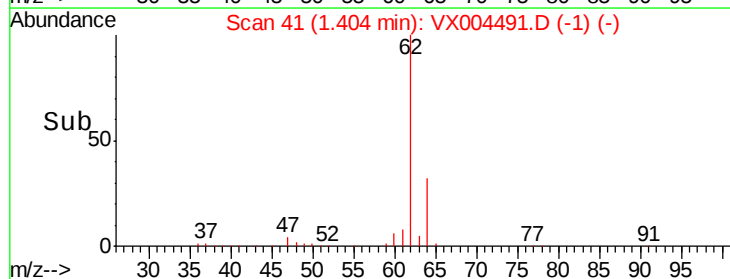
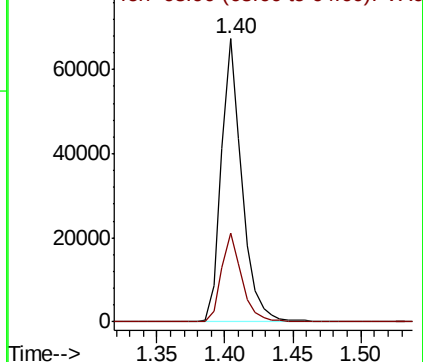
62 100

64 31.6 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 25.62 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tot Ion: 94 Resp: 37225

Ion Ratio Lower Upper

94 100

96 92.1 74.5 111.7

Instrument :

MSVOA_X

ClientSampleId :

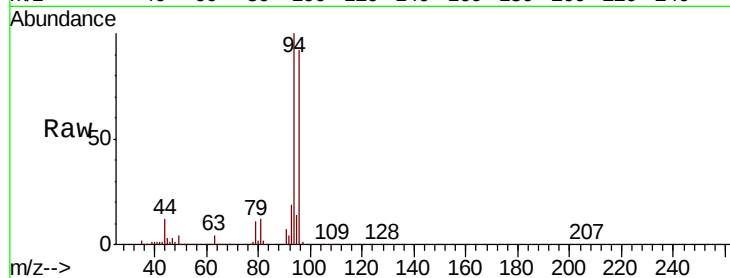
VX0912MBS02

Manual Integrations

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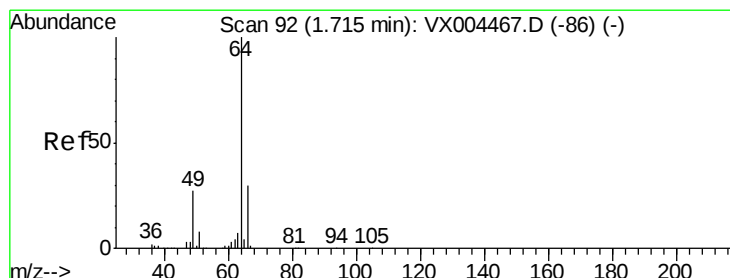
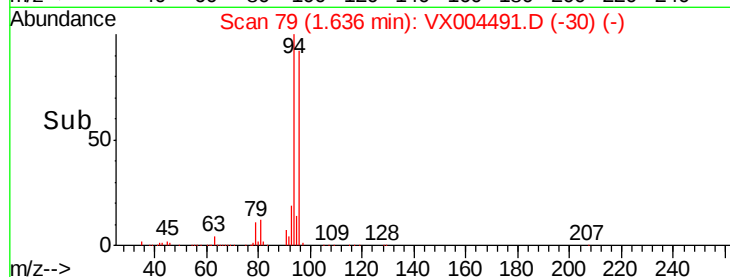
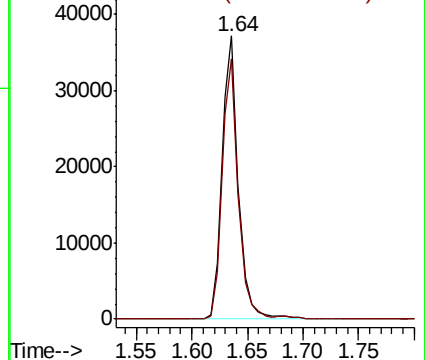
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 19.88 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX004491.D

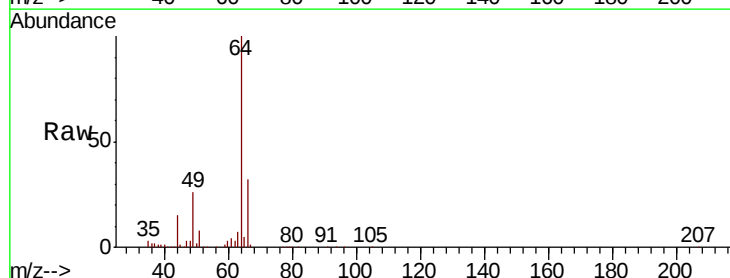
Acq: 12 Sep 2018 13:40

Tgt Ion: 64 Resp: 43619

Ion Ratio Lower Upper

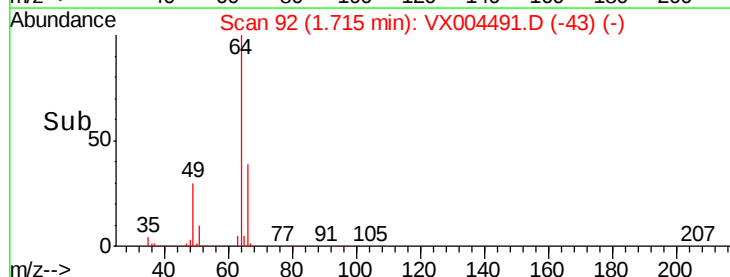
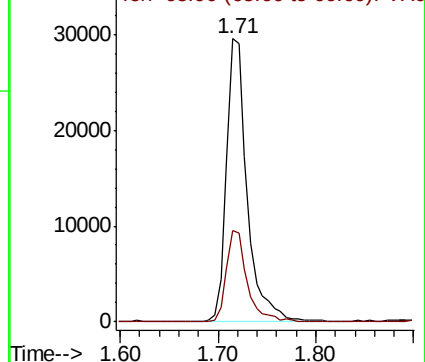
64 100

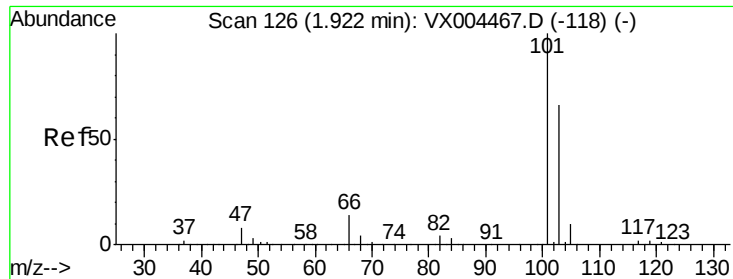
66 32.1 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

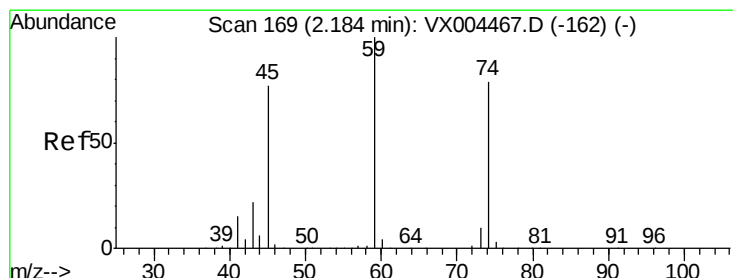
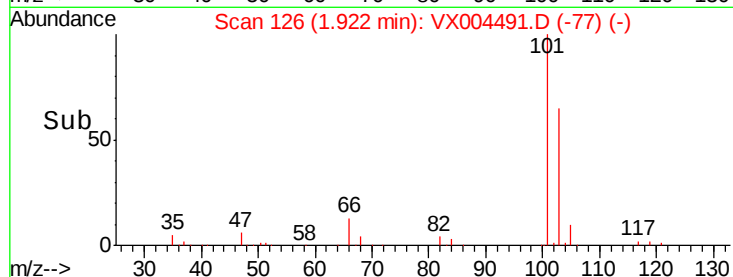
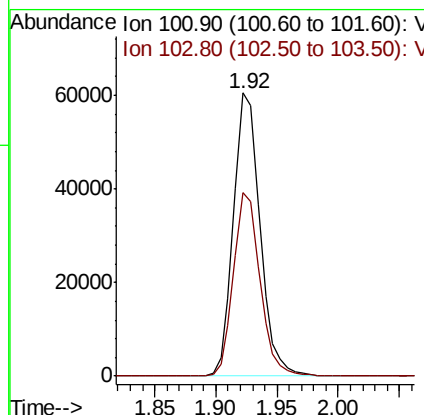
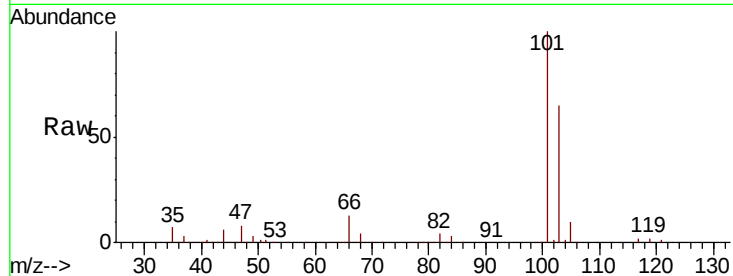
Trichlorofluoromethane
 Concen: 20.16 ug/l
 RT: 1.92 min Scan# 126
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
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 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	48.9	73.3

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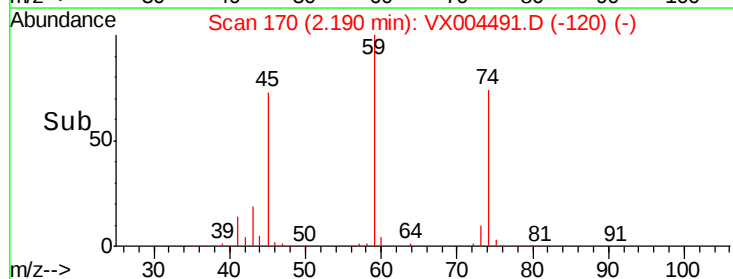
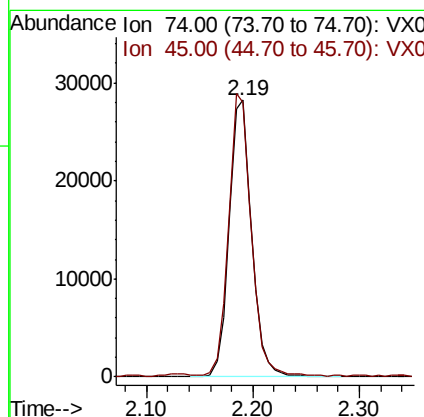
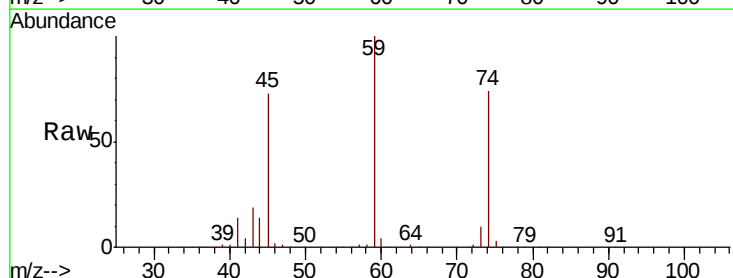
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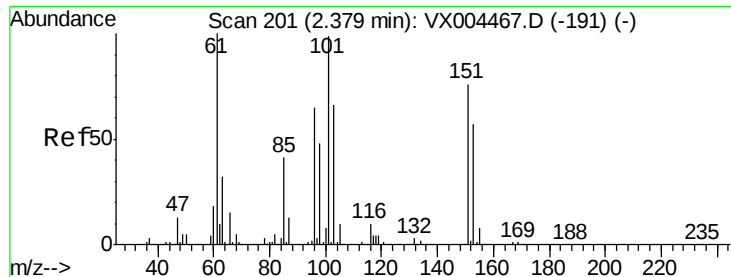


#8

Diethyl Ether
 Concen: 20.84 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.7	48.3	144.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.05 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

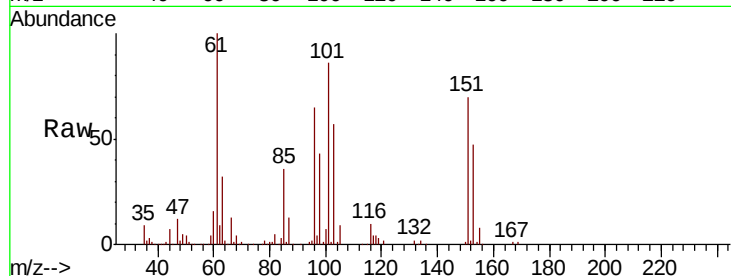
ClientSampleId :

VX0912MBS02

Tot Ion:	101	Resp:	57217
Ion Ratio	Lower	Upper	
101	100		
85	43.0	34.2	51.4
151	83.0	65.0	97.6

Manual Integrations
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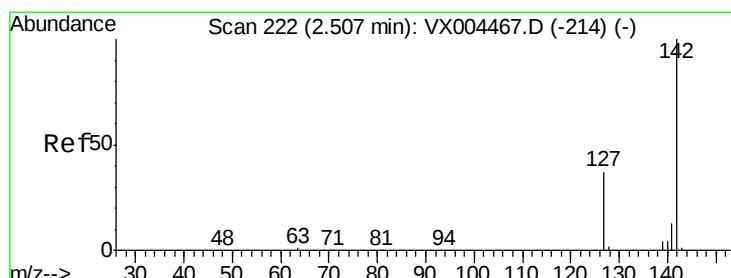
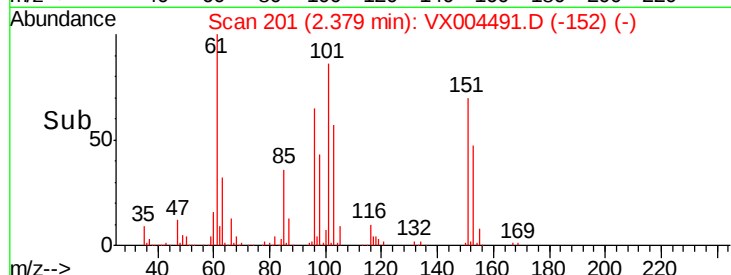
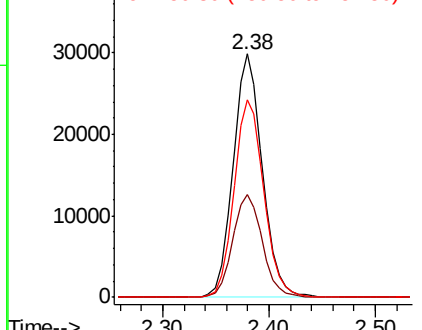
MMDadoda
9/13/2018 10:58:49 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.78 ug/l

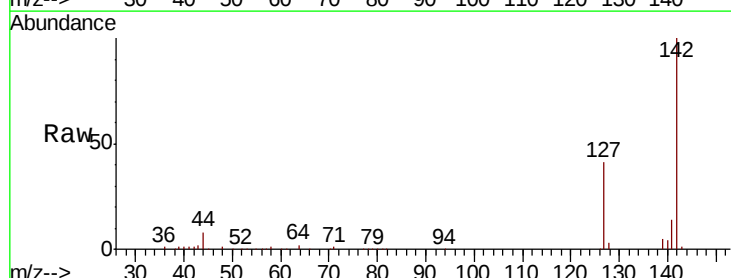
RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

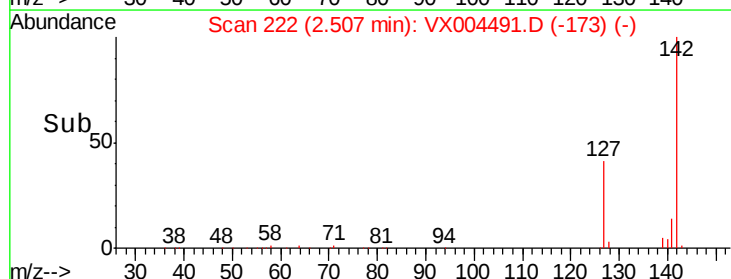
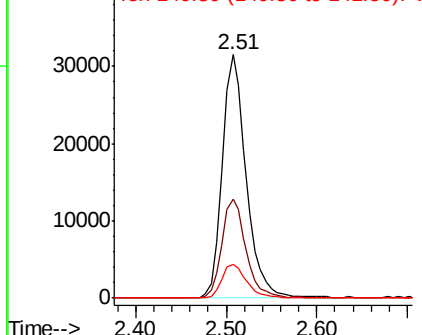
Tgt Ion:	142	Resp:	57894
Ion Ratio	Lower	Upper	
142	100		
127	41.3	33.8	50.6
141	14.4	11.4	17.0

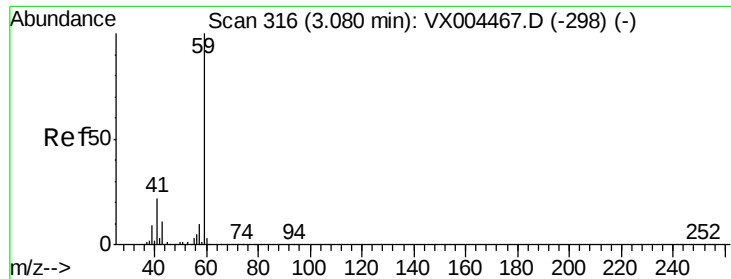


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





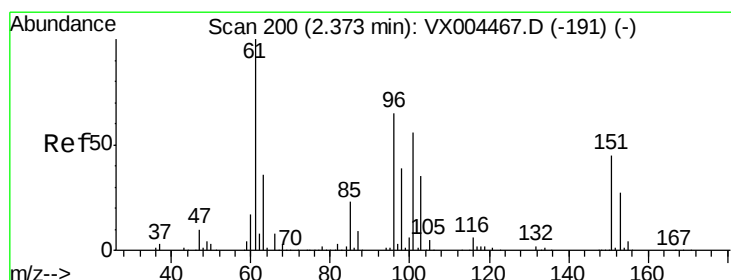
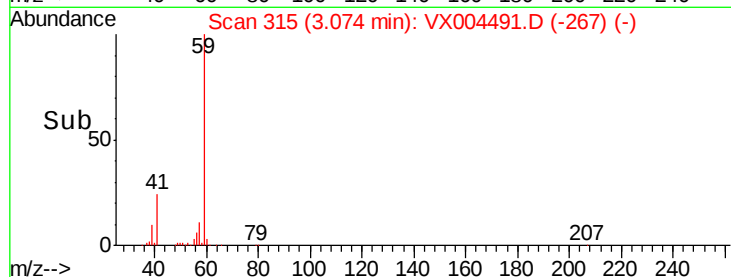
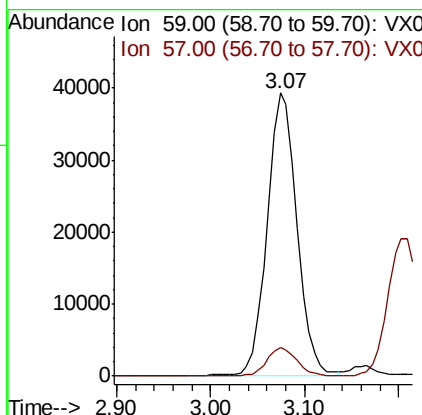
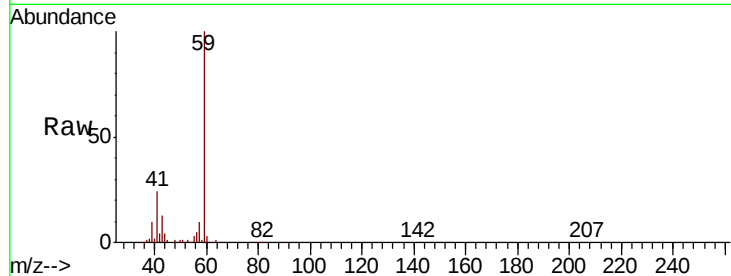
#11
Tert butyl alcohol
Concen: 110.60 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampled :
VX0912MBS02

Tot Ion: 59 Resp: 87226
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.4

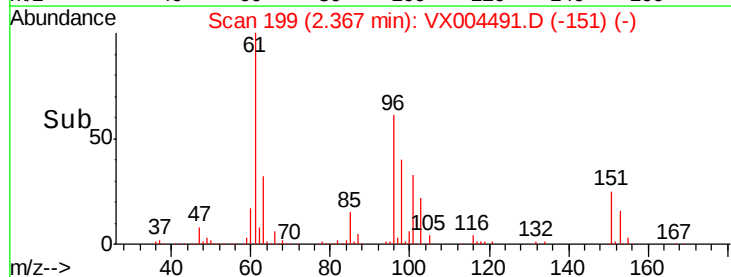
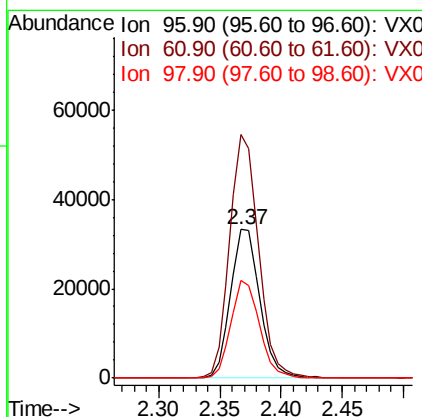
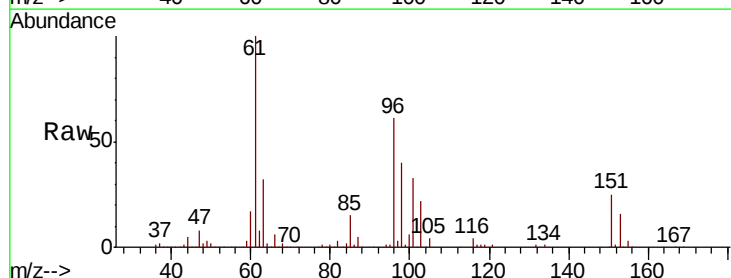
Manual Integrations
APPROVED

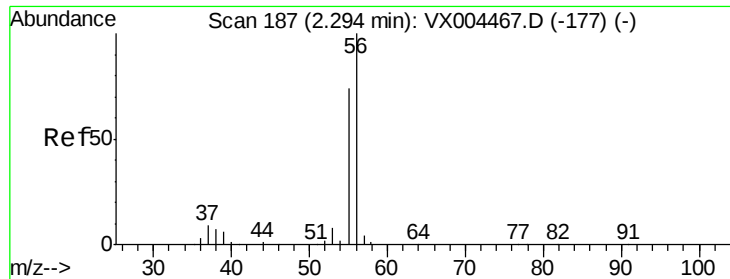
MMDadoda
9/13/2018 10:58:49 AM



#12
1,1-Dichloroethene
Concen: 20.66 ug/l
RT: 2.37 min Scan# 199
Delta R.T. -0.01 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion: 96 Resp: 55350
Ion Ratio Lower Upper
96 100
61 163.7 128.8 193.2
98 65.6 52.2 78.2





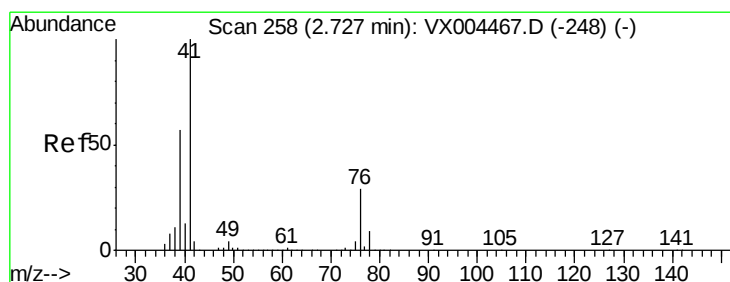
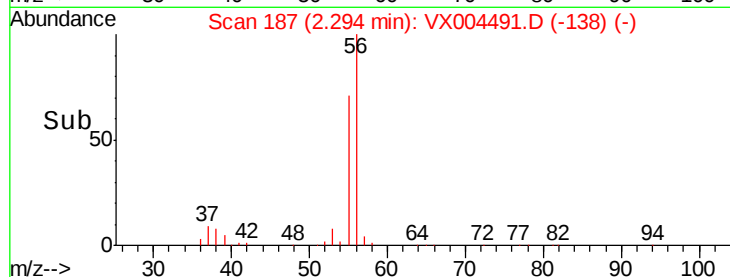
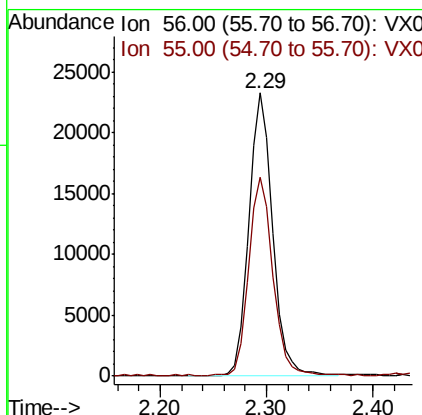
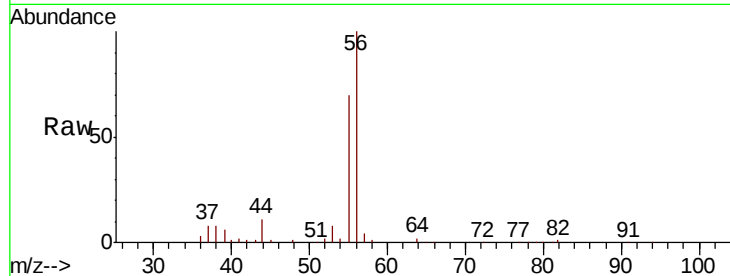
#13
Acrolein
Concen: 117.36 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	56	55	Ratio	Lower	Upper
36539	100	72.6		54.7	82.1

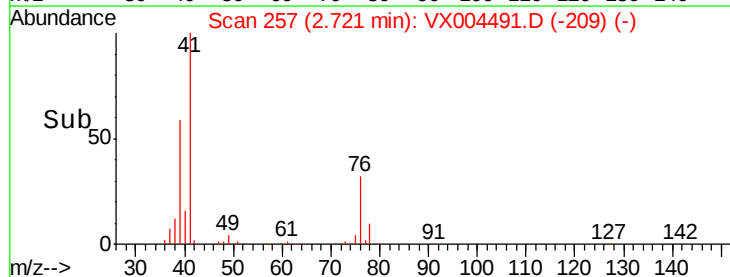
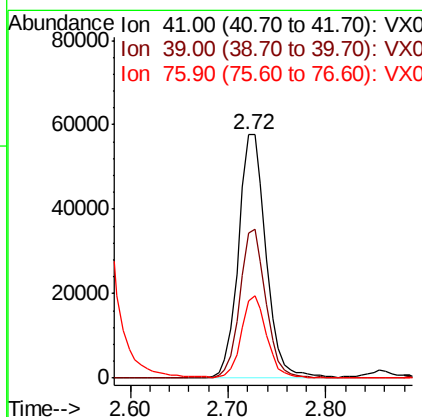
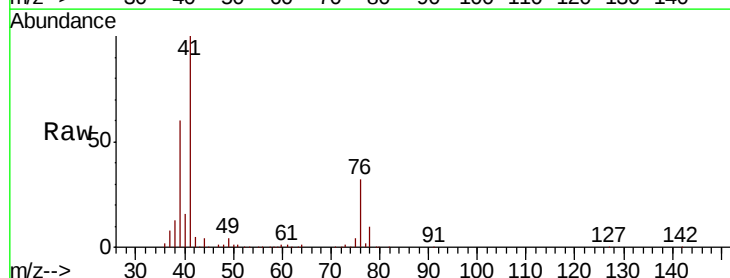
Manual Integrations
APPROVED

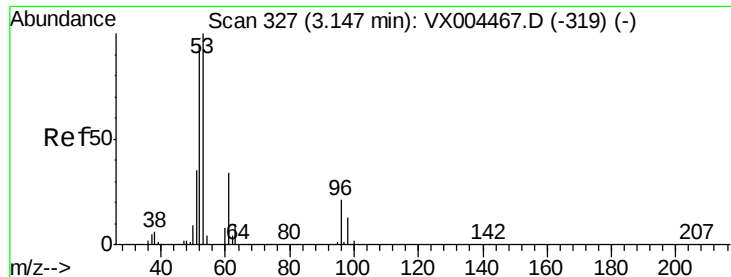
MMDadoda
9/13/2018 10:58:49 AM



#14
Allyl chloride
Concen: 20.48 ug/l
RT: 2.72 min Scan# 257
Delta R.T. -0.01 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	41	39	76	Ratio	Lower	Upper
112769	100	57.3	31.3		48.9	73.3
					26.7	40.1





#15

Acrylonitrile

Concen: 106.41 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

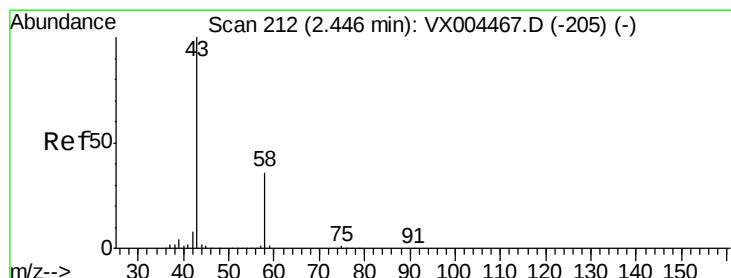
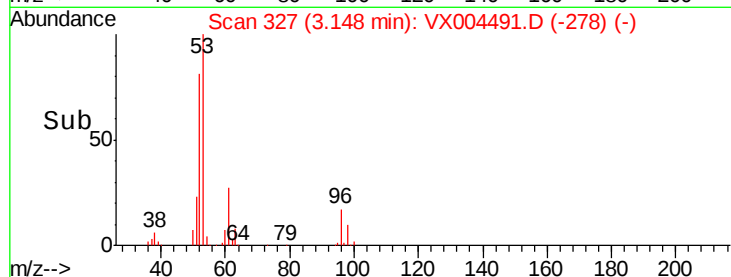
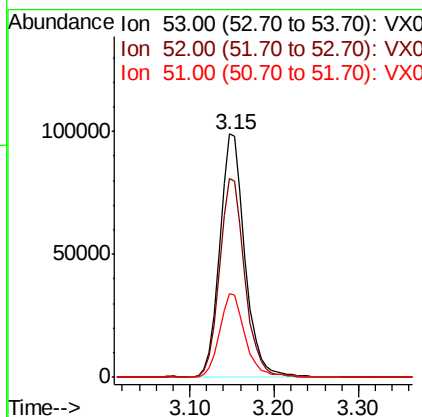
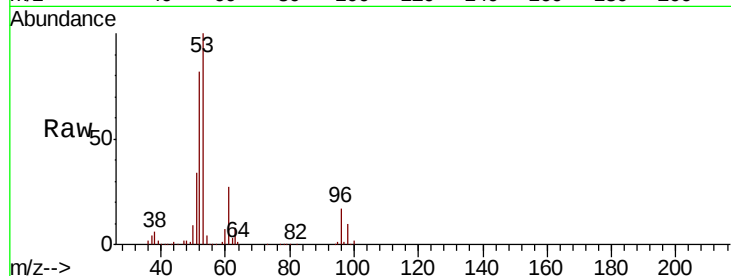
ClientSampleId :

VX0912MBS02

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.2	97.8
51	35.1	28.2	42.2

Manual Integrations
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#16

Acetone

Concen: 101.37 ug/l

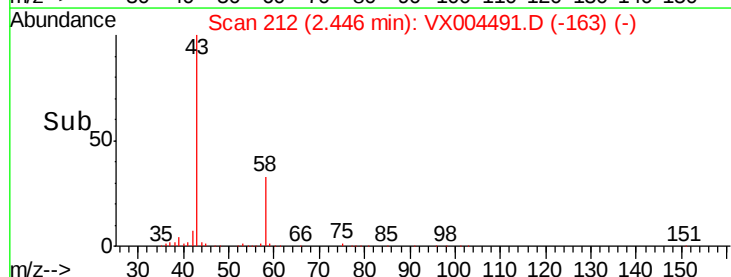
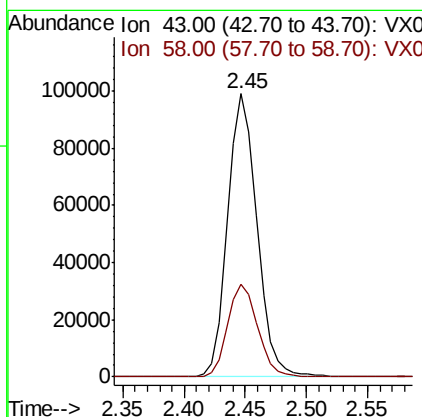
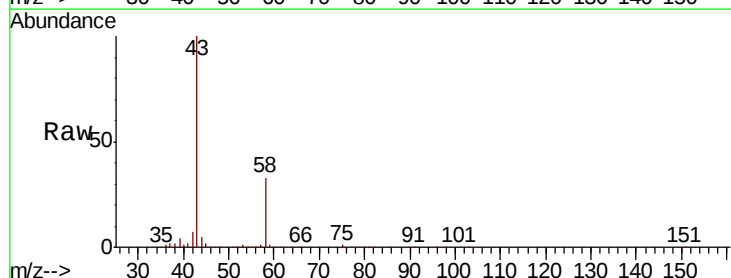
RT: 2.45 min Scan# 212

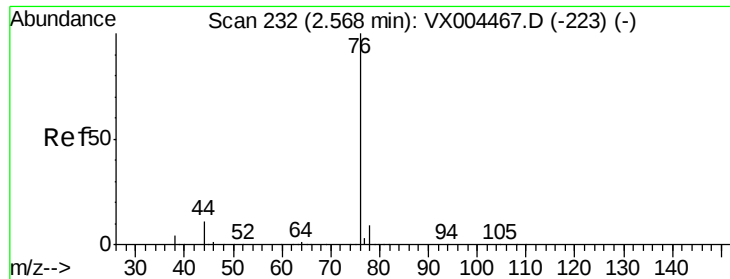
Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.2	39.4





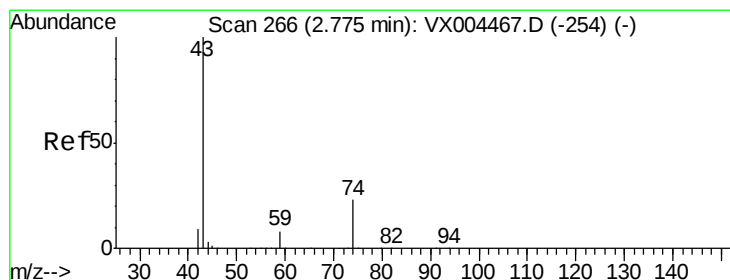
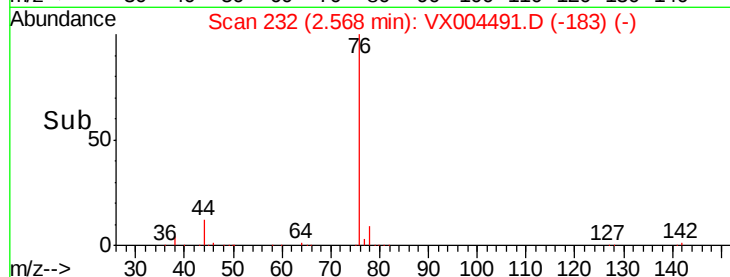
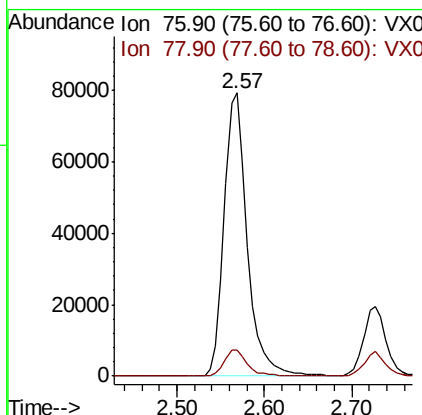
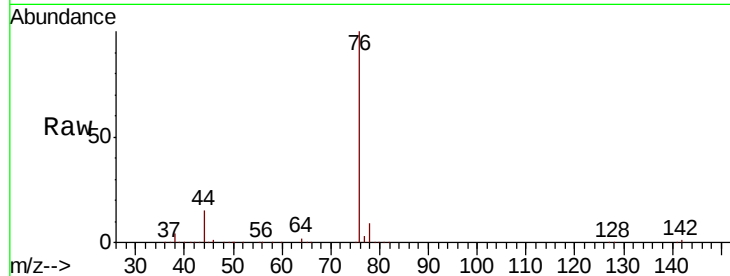
#17
Carbon Disulfide
Concen: 18.76 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.6

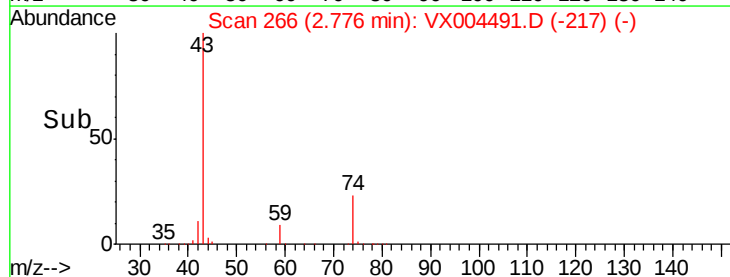
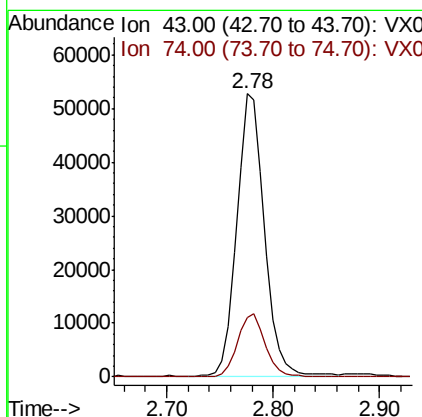
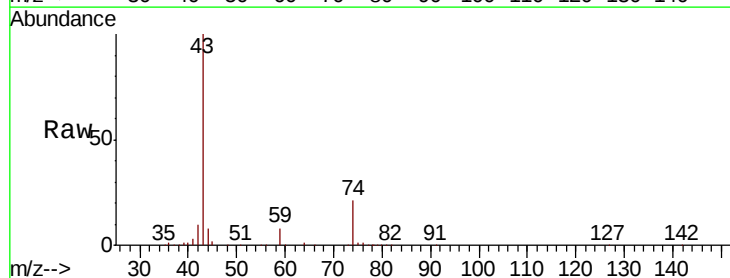
Manual Integrations
APPROVED

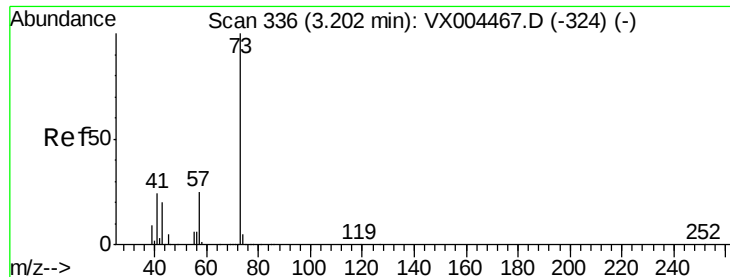
MMDadoda
9/13/2018 10:58:49 AM



#18
Methyl Acetate
Concen: 21.12 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.4	19.4	29.2





#19

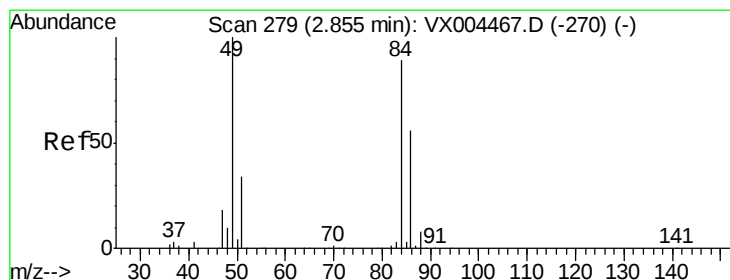
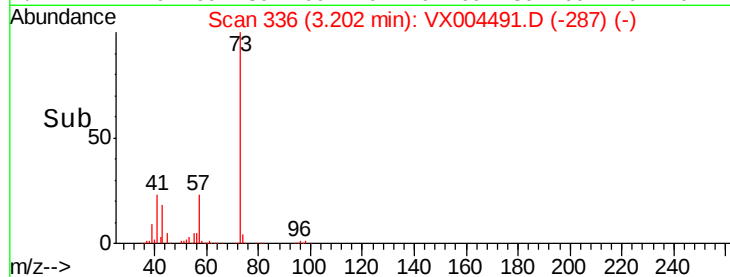
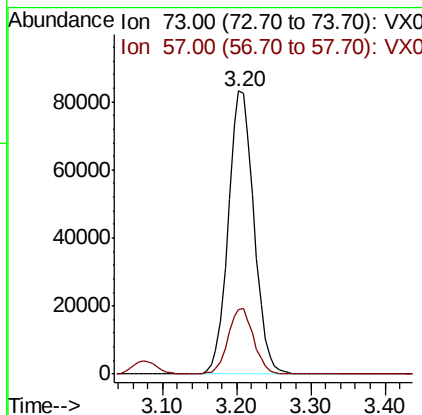
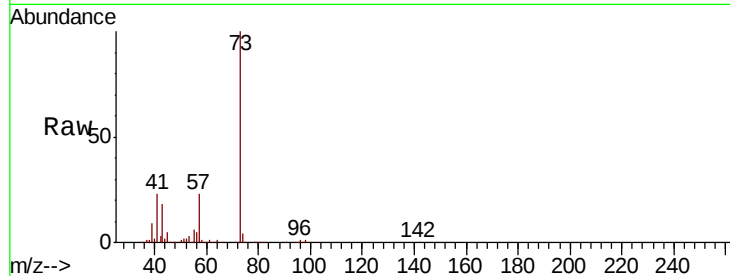
Methyl tert-butyl Ether
 Concen: 21.32 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.1	25.7

Manual Integrations
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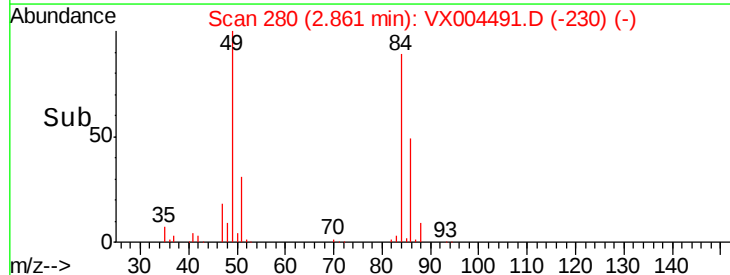
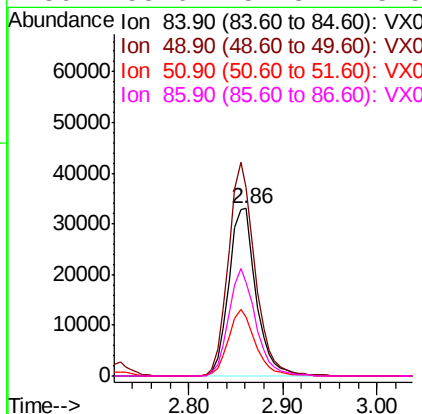
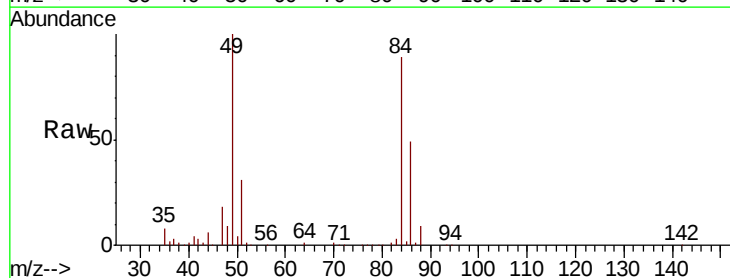
MMDadoda
 9/13/2018 10:58:49 AM

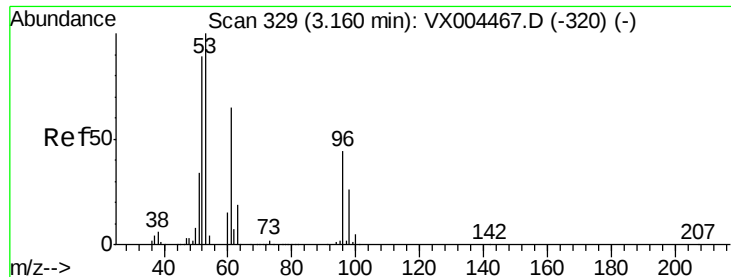


#20

Methylene Chloride
 Concen: 20.20 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.01 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
84	100		
49	112.5	101.2	151.8
51	34.9	29.5	44.3
86	55.6	52.3	78.5





#21

trans-1,2-Dichloroethene

Concen: 20.16 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

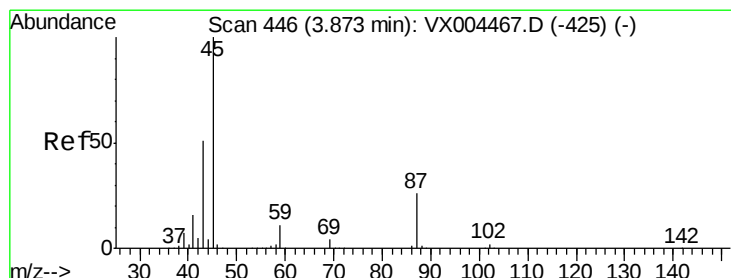
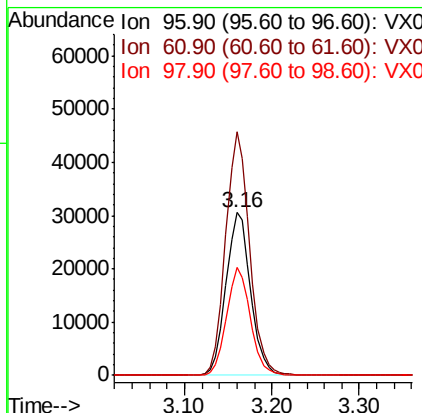
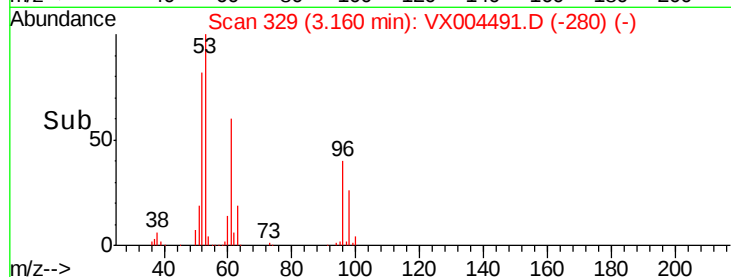
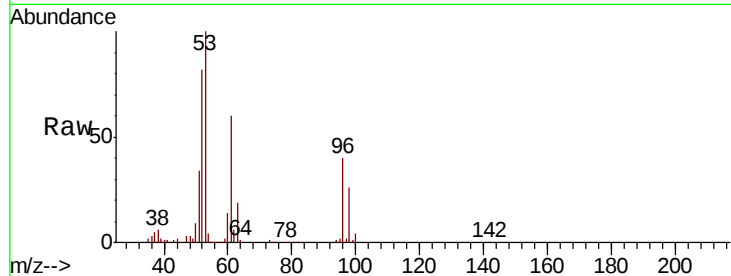
ClientSampleId :

VX0912MBS02

Tot Ion:	96	Resp:	59654
Ion	Ratio	Lower	Upper
96	100		
61	149.5	113.8	170.6
98	65.9	51.8	77.8

Manual Integrations
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9/13/2018 10:58:49 AM



#22

Diisopropyl ether

Concen: 20.19 ug/l

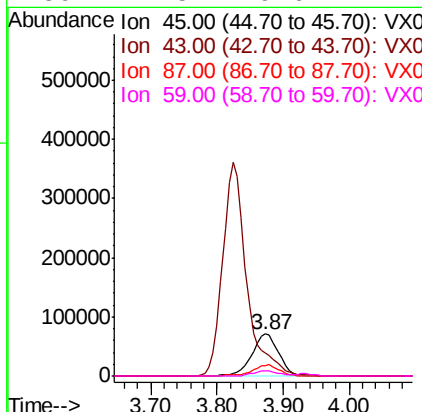
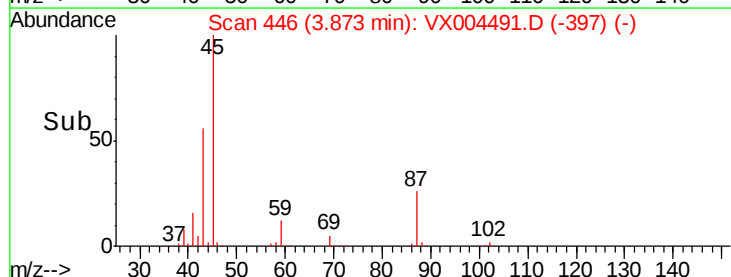
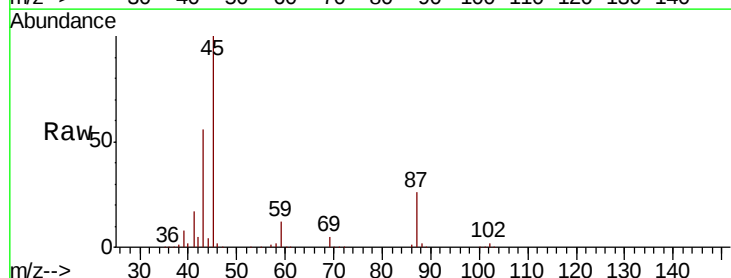
RT: 3.87 min Scan# 446

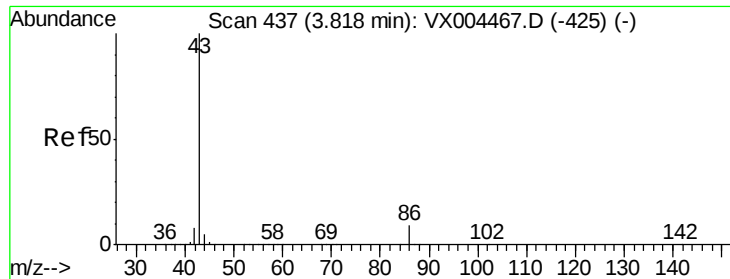
Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tgt Ion:	45	Resp:	200193
Ion	Ratio	Lower	Upper
45	100		
43	56.3	42.8	64.2
87	25.8	22.6	34.0
59	12.5	9.6	14.4





#23

Vinyl Acetate

Concen: 113.16 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.01 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampled :

VX0912MBS02

Tot Ion: 43 Resp: 908197

Ion Ratio Lower Upper

43 100

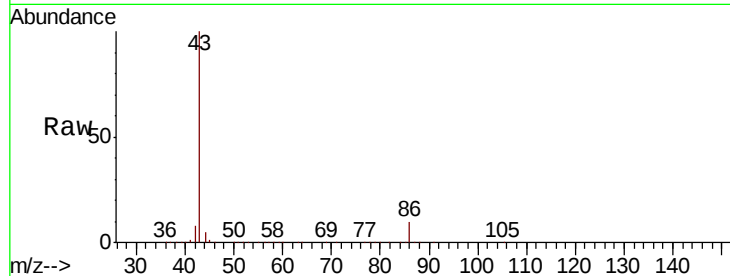
86 10.0 8.9 13.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.82

400000

300000

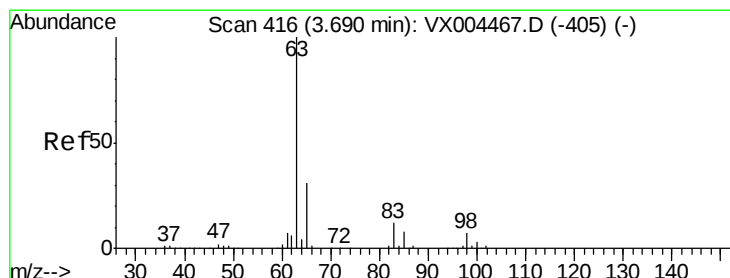
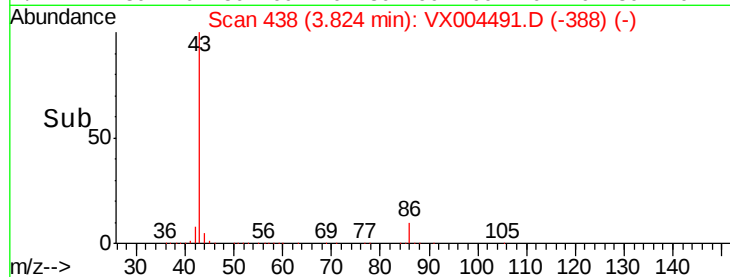
200000

100000

0

3.70 3.80 3.90 4.00 4.10

Time-->



#24

1,1-Dichloroethane

Concen: 20.82 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

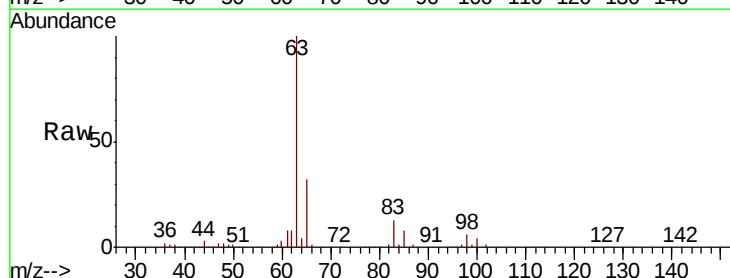
Tgt Ion: 63 Resp: 116587

Ion Ratio Lower Upper

63 100

98 6.3 3.5 10.4

100 4.3 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

60000

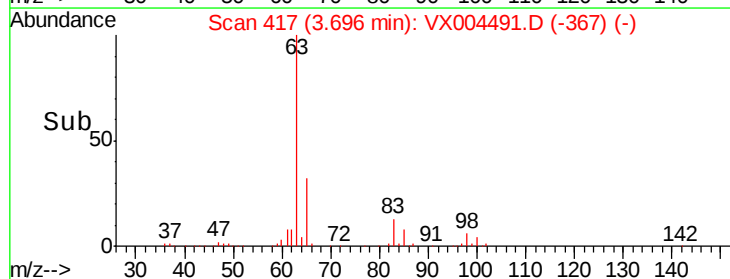
40000

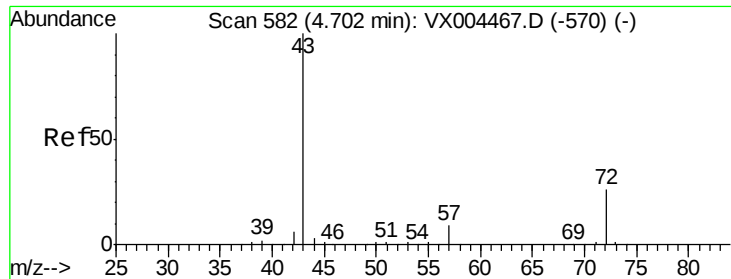
20000

0

3.60 3.70 3.80 3.90

Time-->





#25

2-Butanone

Concen: 96.90 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 43 Resp: 248798

Ion Ratio Lower Upper

43 100

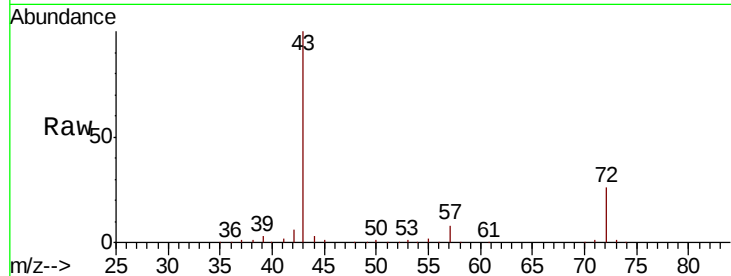
72 26.3 22.0 33.0

Manual Integrations

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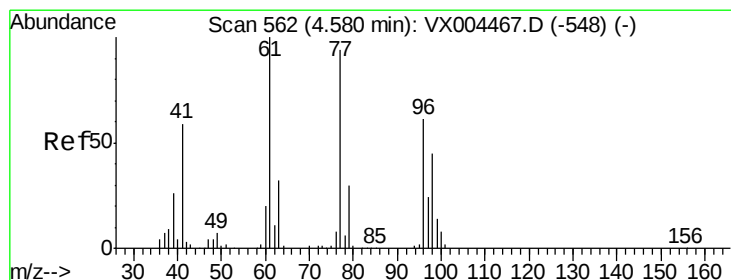
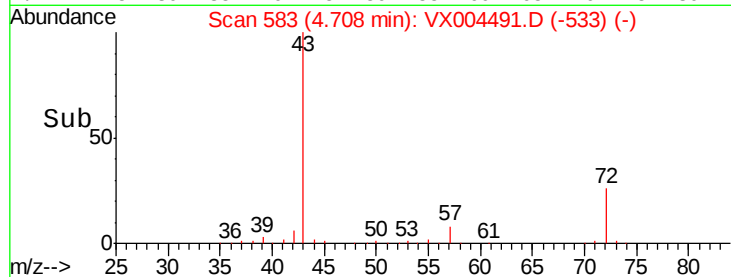
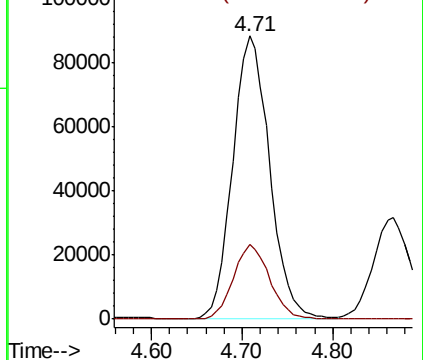
MMDadoda

9/13/2018 10:58:49 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 20.40 ug/l

RT: 4.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VX004491.D

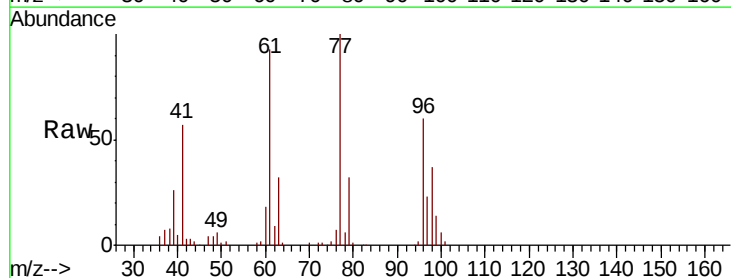
Acq: 12 Sep 2018 13:40

Tgt Ion: 77 Resp: 78441

Ion Ratio Lower Upper

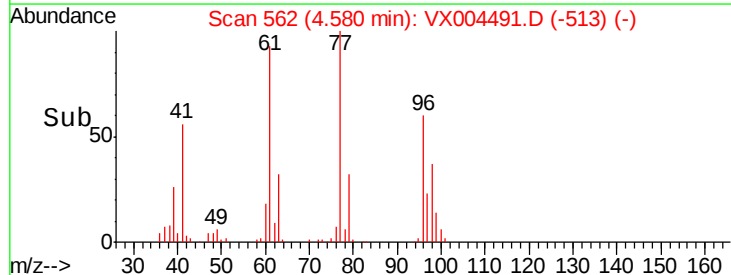
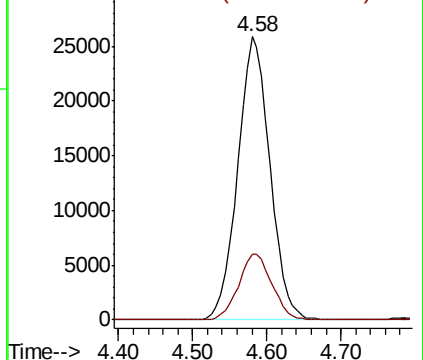
77 100

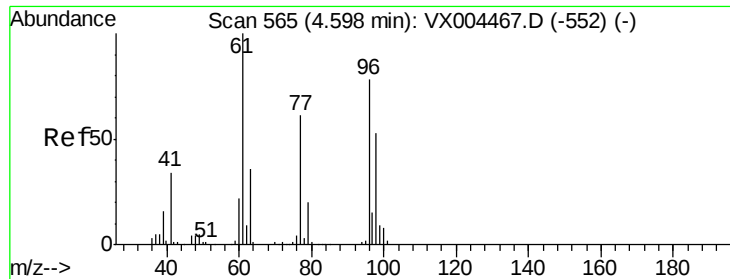
97 24.0 11.7 35.0



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

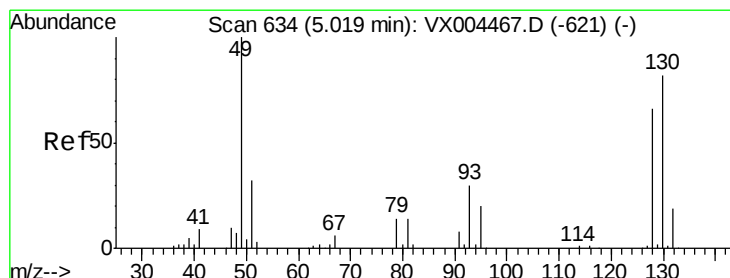
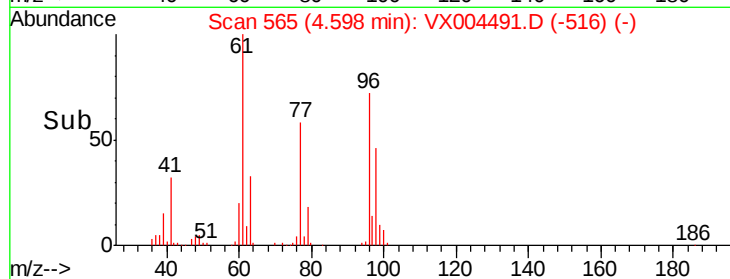
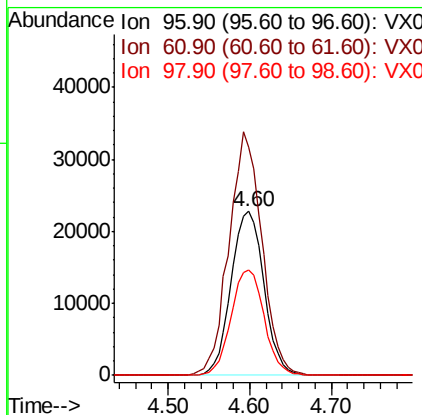
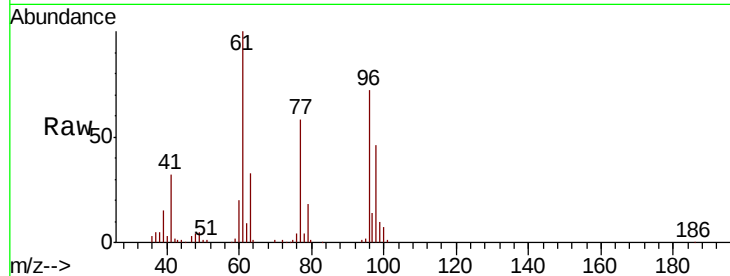
cis-1,2-Dichloroethene
Concen: 19.19 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.8	0.0	282.6
98	64.8	0.0	130.2

Manual Integrations
APPROVED

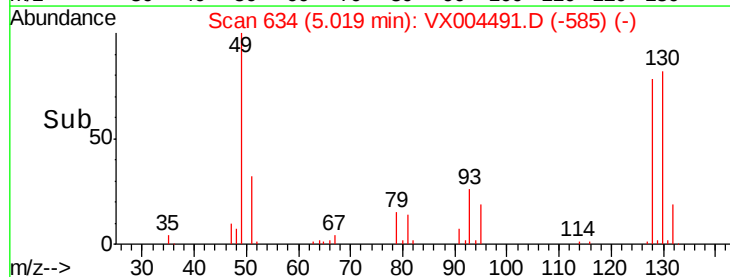
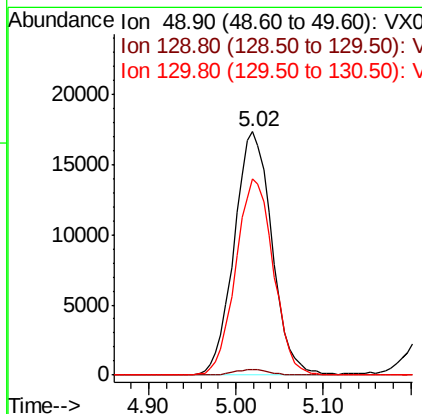
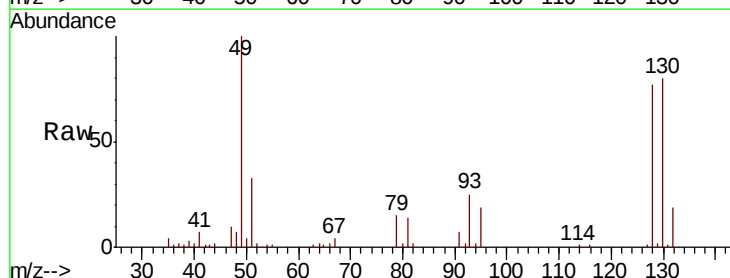
MMDadoda
9/13/2018 10:58:49 AM

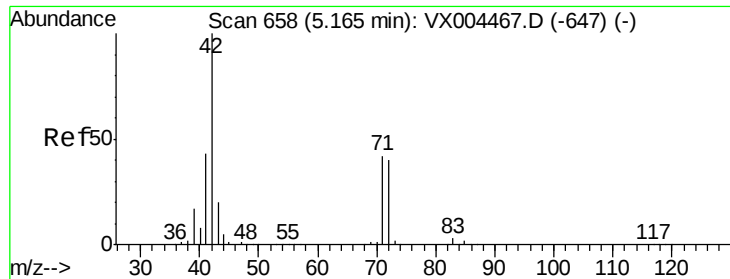


#28

Bromochloromethane
Concen: 20.34 ug/l
RT: 5.02 min Scan# 634
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	80.1	67.5	101.3





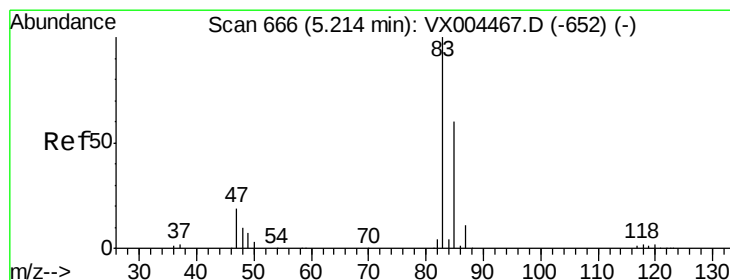
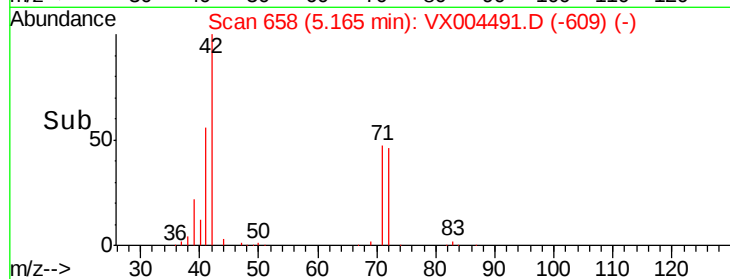
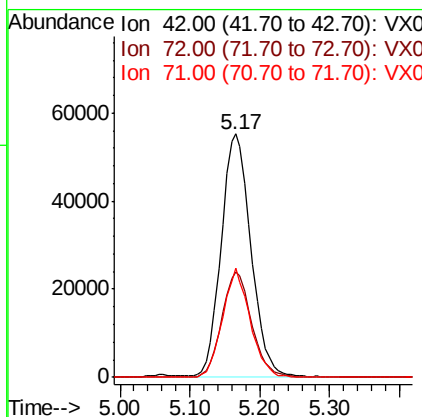
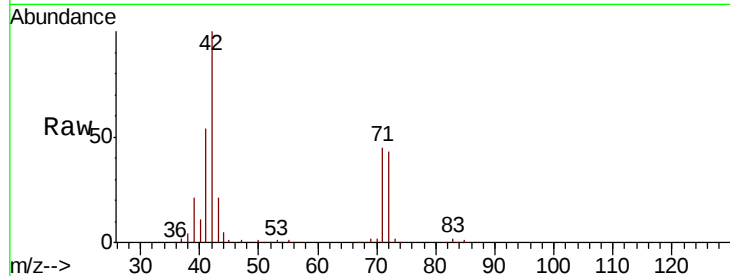
#29
Tetrahydrofuran
Concen: 105.05 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	37.4	56.0
71	41.5	34.5	51.7

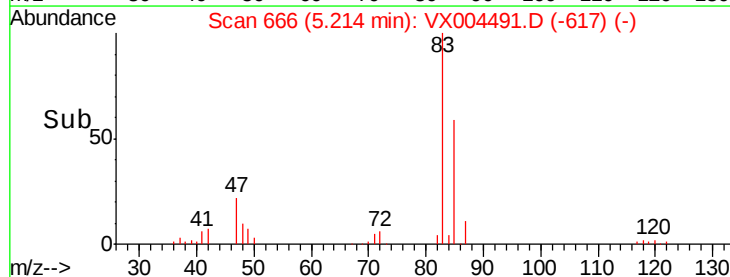
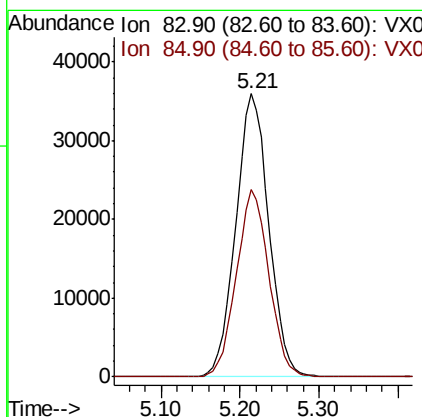
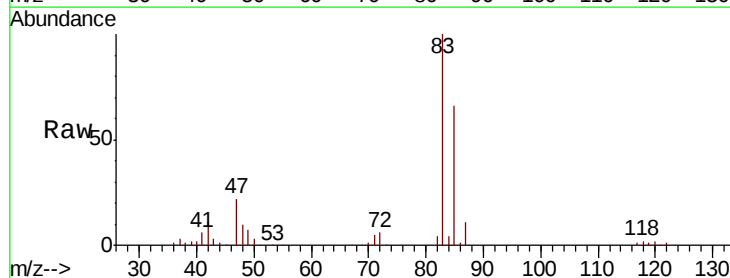
Manual Integrations
APPROVED

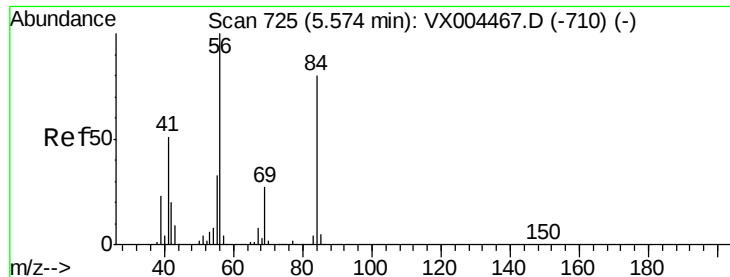
MMDadoda
9/13/2018 10:58:49 AM



#30
Chloroform
Concen: 19.10 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.6	79.0





#31

Cyclohexane

Concen: 20.24 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 56 Resp: 96760

Ion Ratio Lower Upper

56 100

69 29.3 25.4 38.2

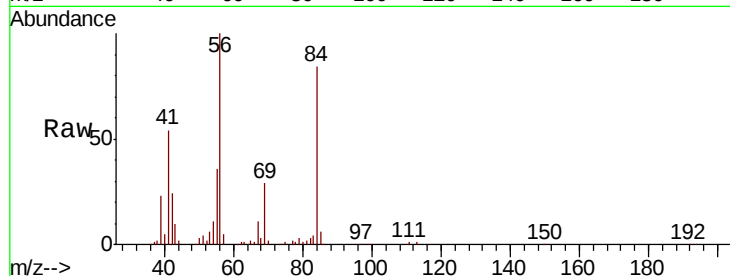
84 82.7 71.4 107.2

Manual Integrations

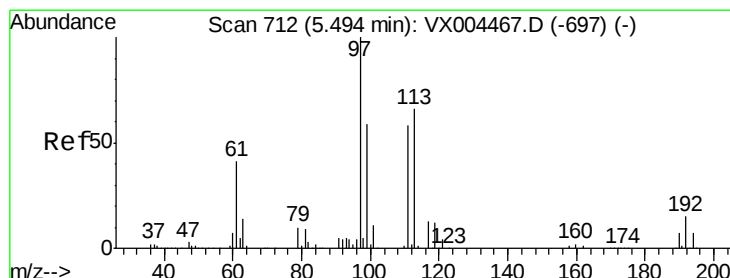
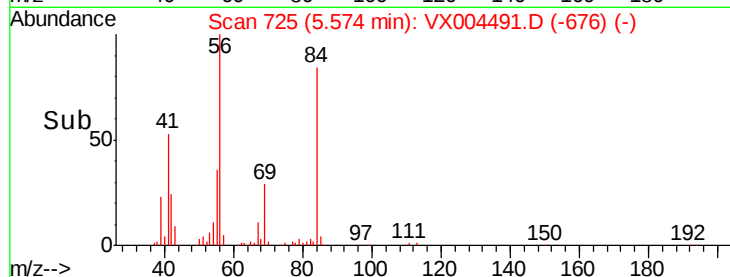
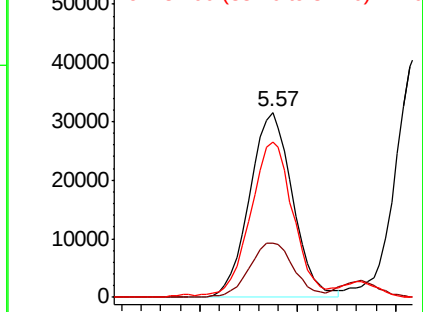
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Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 19.67 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

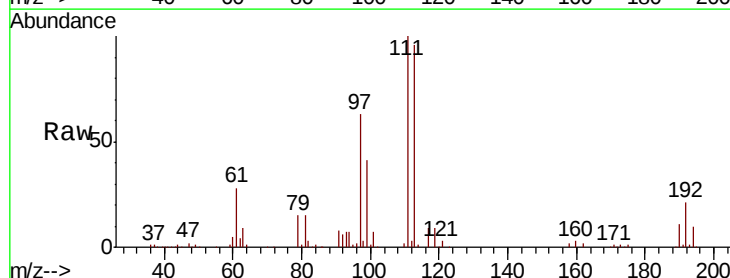
Tgt Ion: 97 Resp: 86608

Ion Ratio Lower Upper

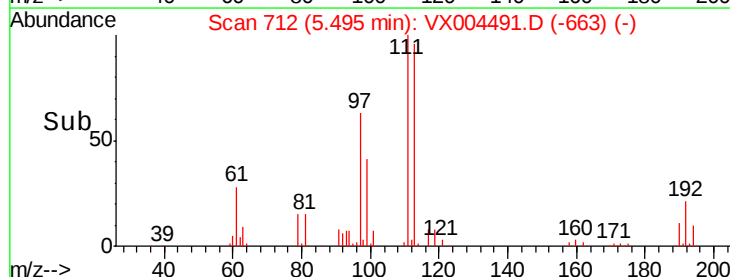
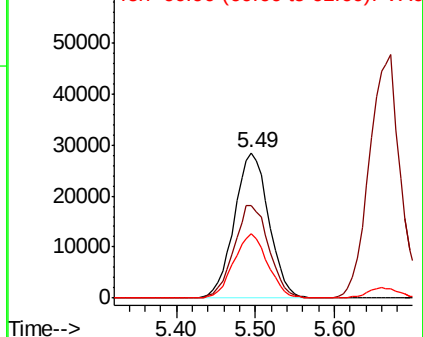
97 100

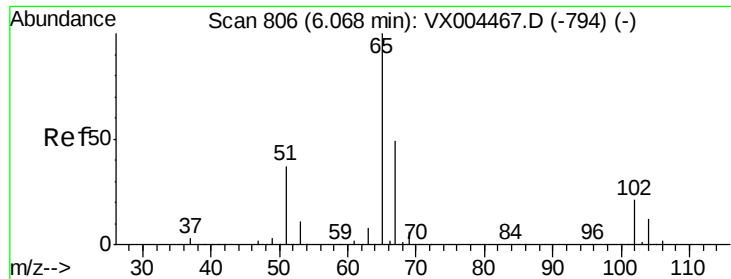
99 64.5 52.0 78.0

61 43.6 34.9 52.3



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: 50.93 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tot Ion: 65 Resp: 168323

Ion Ratio Lower Upper

65 100

67 54.3 0.0 106.8

Instrument :

MSVOA_X

ClientSampled :

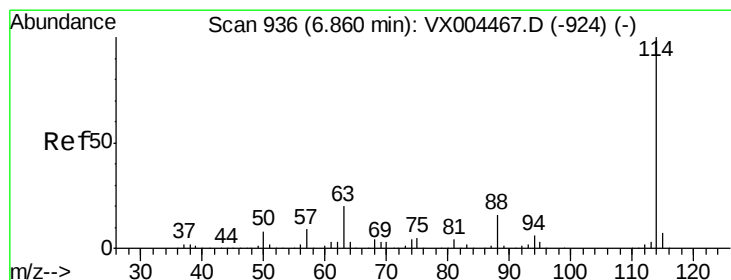
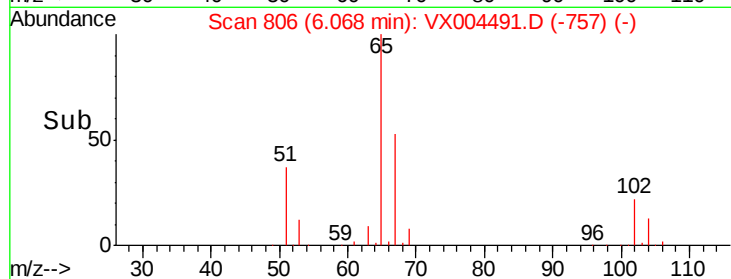
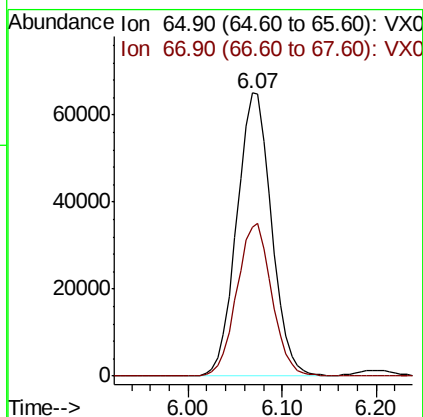
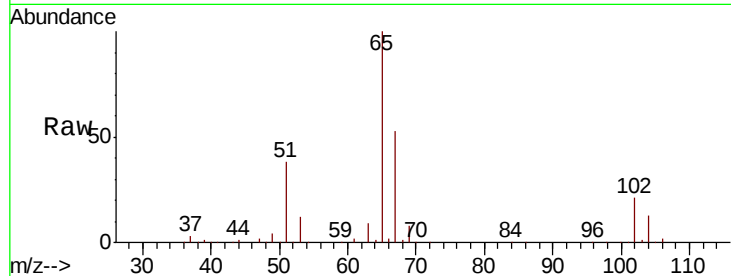
VX0912MBS02

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

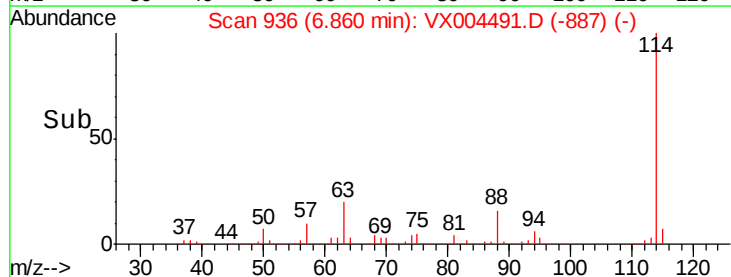
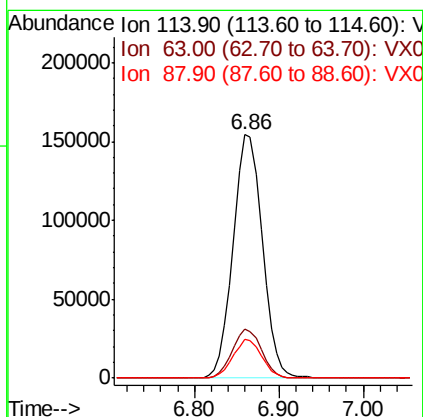
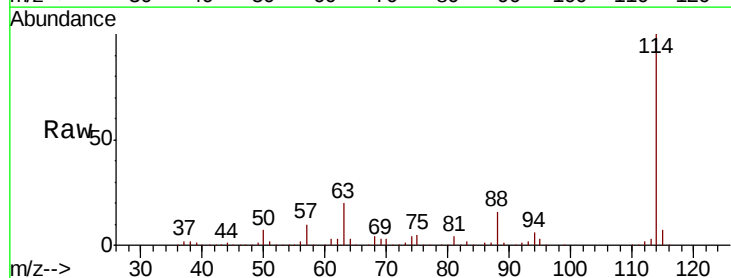
Tgt Ion: 114 Resp: 364039

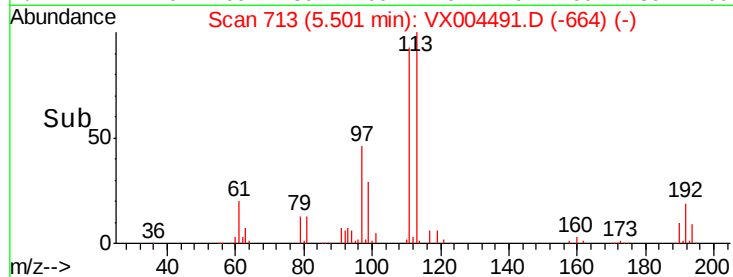
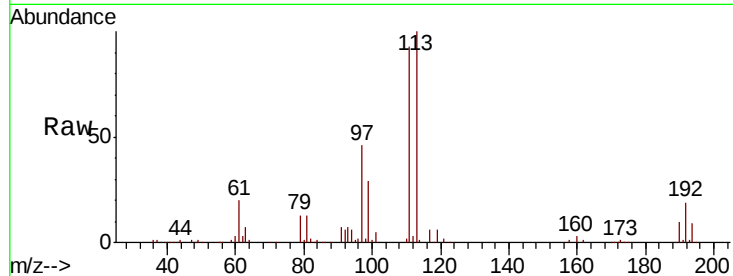
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.0

88 16.1 0.0 30.4





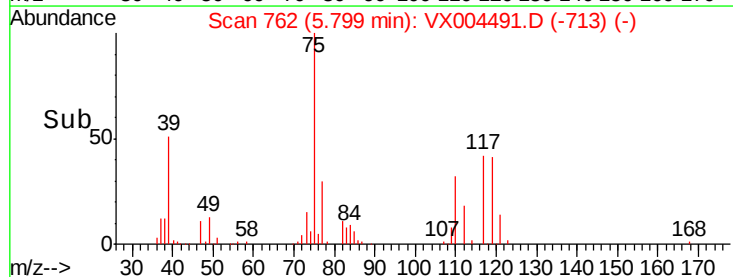
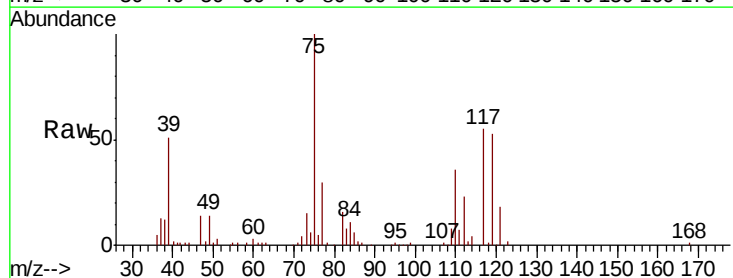
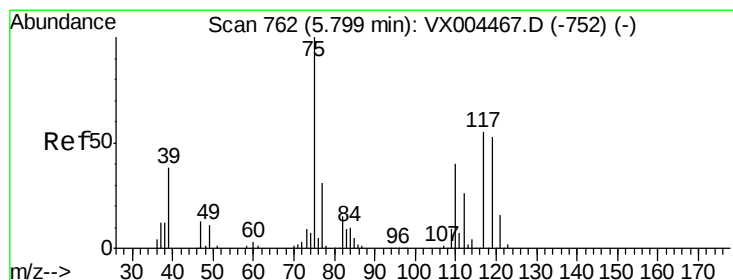
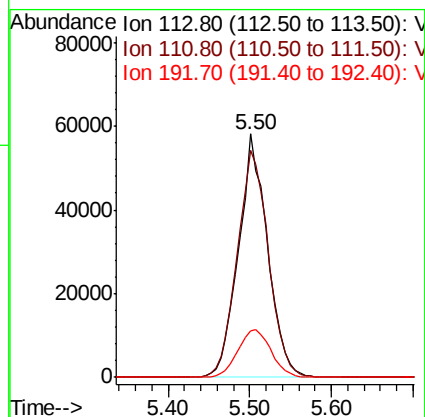
#35
Dibromofluoromethane
Concen: 42.93 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tot Ion	Ratio	Resp	Lower	Upper
113	100	143007		
111	100.6	82.4	123.6	
192	22.6	19.4	29.2	

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

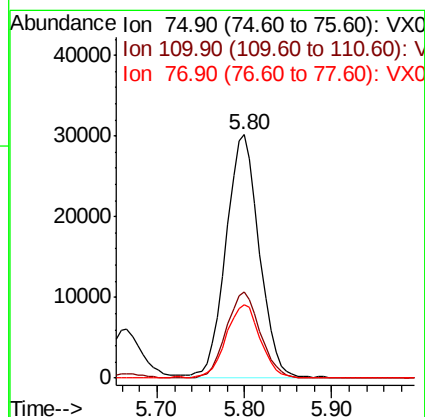
Manual Integrations
APPROVED

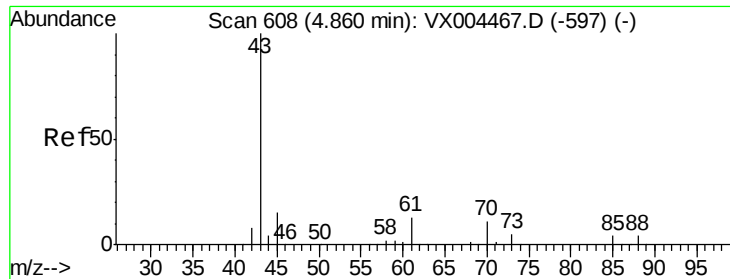
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#36
1,1-Dichloropropene
Concen: 17.98 ug/l
RT: 5.80 min Scan# 762
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	79470		
110	36.2	18.0	54.0	
77	31.1	24.6	36.8	





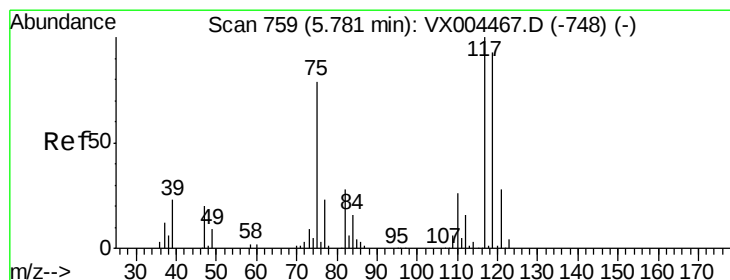
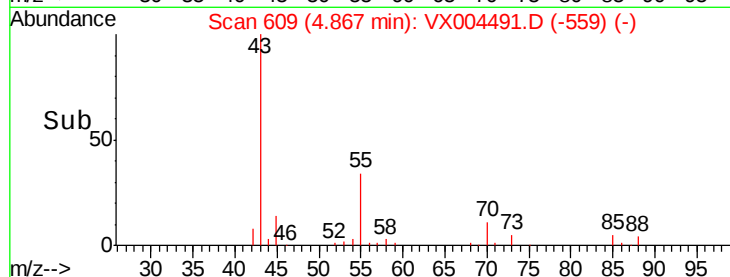
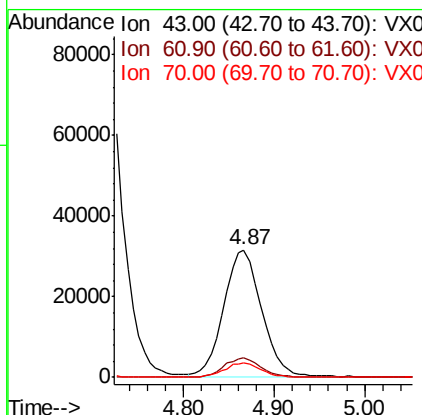
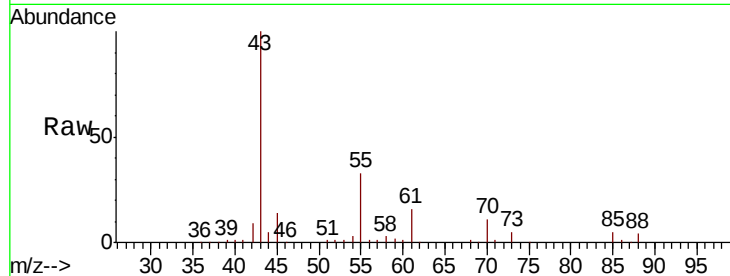
#37
Ethyl Acetate
Concen: 18.11 ug/l
RT: 4.87 min Scan# 609
Delta R.T. 0.01 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.5	17.3
70	10.8	9.0	13.6

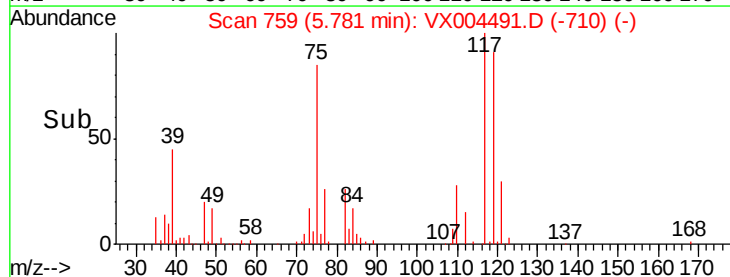
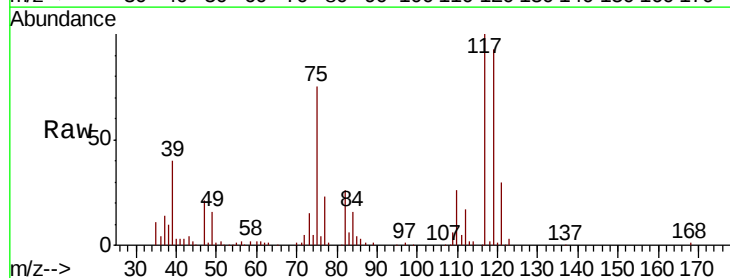
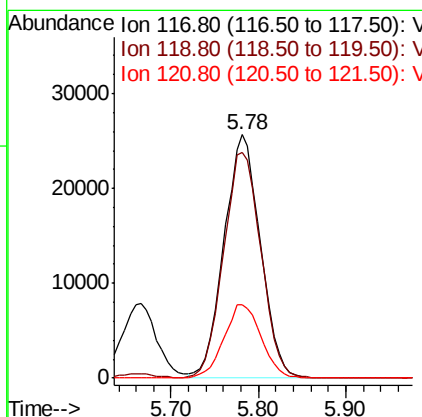
Manual Integrations
APPROVED

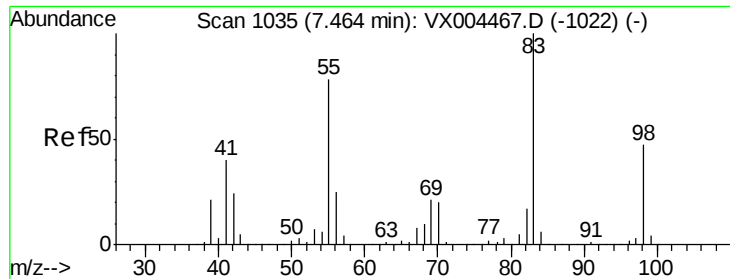
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#38
Carbon Tetrachloride
Concen: 17.16 ug/l
RT: 5.78 min Scan# 759
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.8	78.8	118.2
121	30.1	24.9	37.3





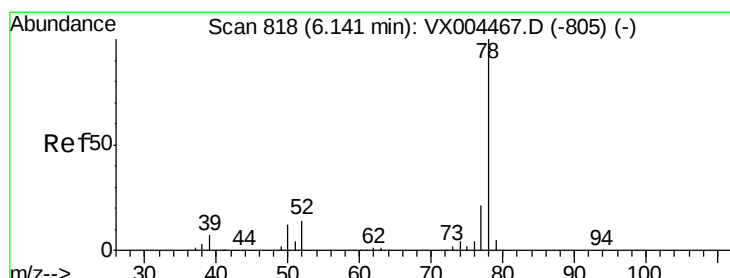
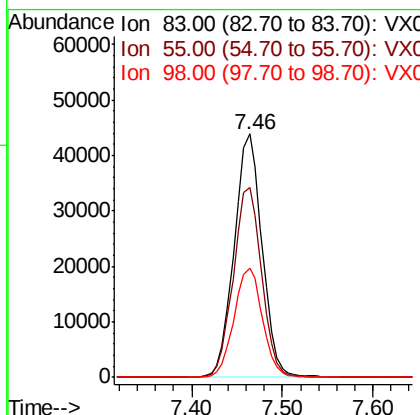
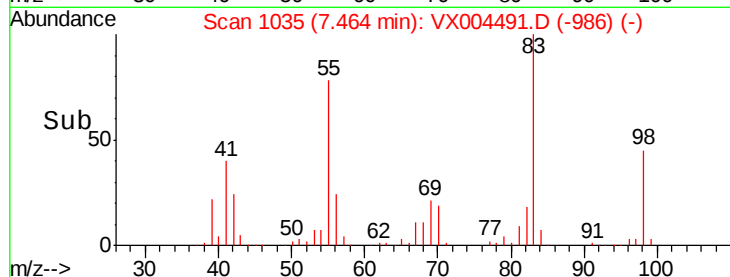
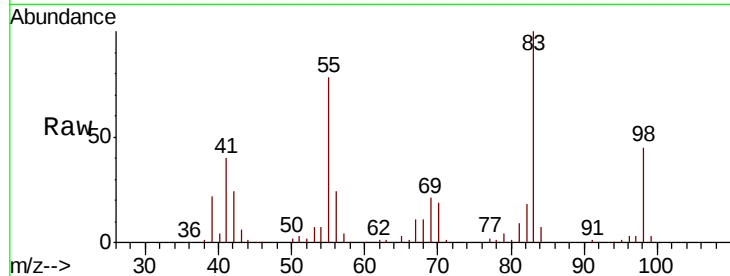
#39
Methylvlcvclohexane
Concen: 20.34 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.0	61.0	91.4
98	45.0	39.6	59.4

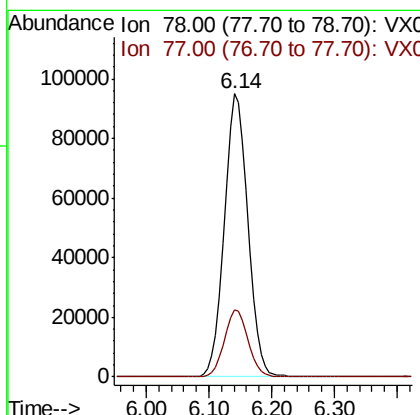
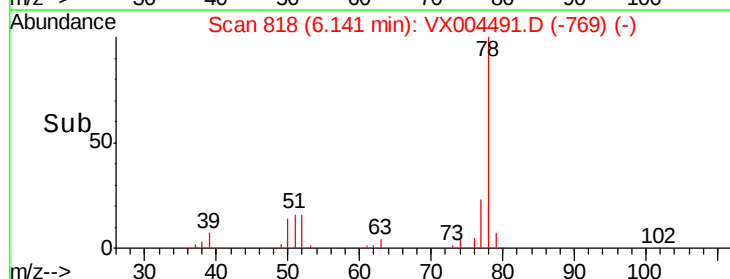
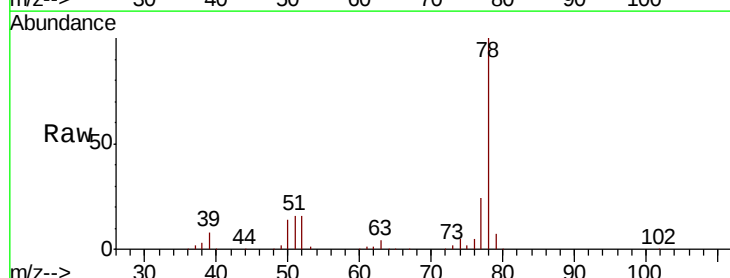
Manual Integrations
APPROVED

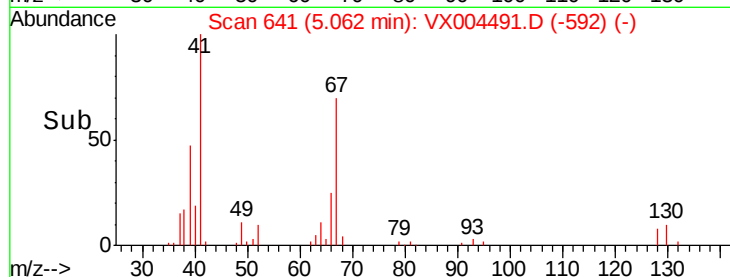
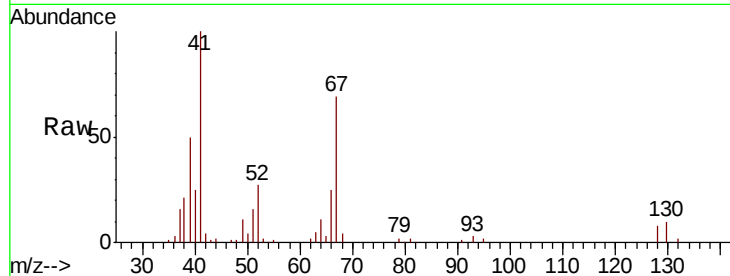
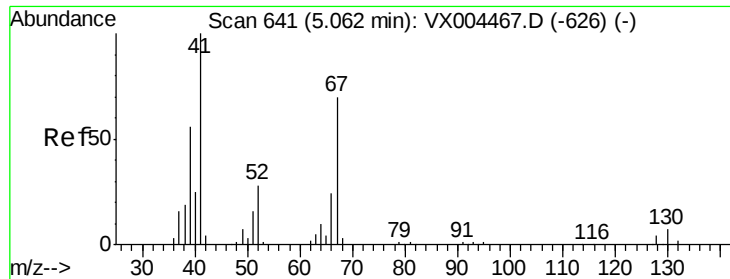
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#40
Benzene
Concen: 18.85 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





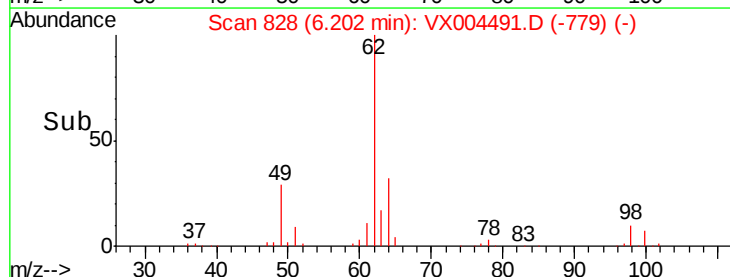
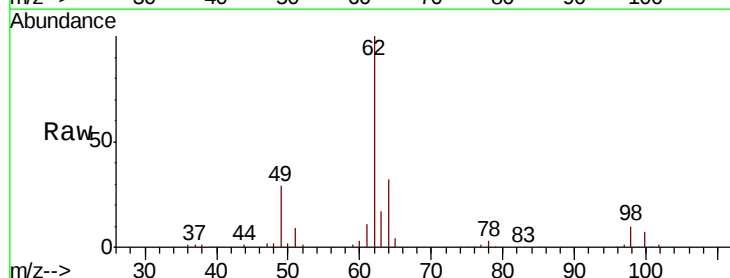
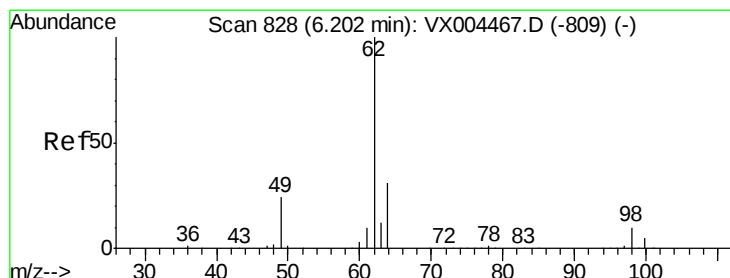
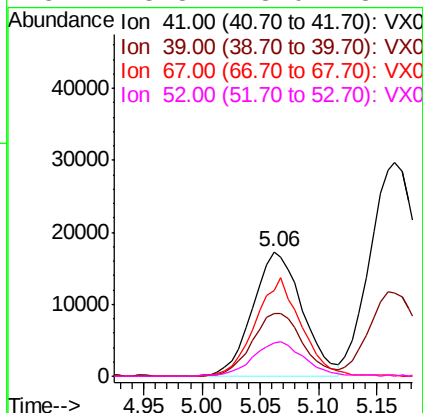
#41
Methacrylonitrile
Concen: 18.53 ug/l
RT: 5.06 min Scan# 641
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.0	42.4	63.6	
67	72.5	59.2	88.8	
52	28.8	23.0	34.4	

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

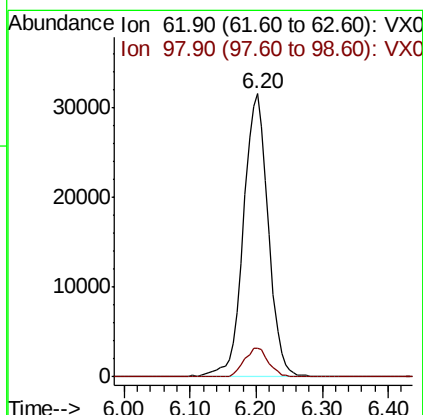
Manual Integrations
APPROVED

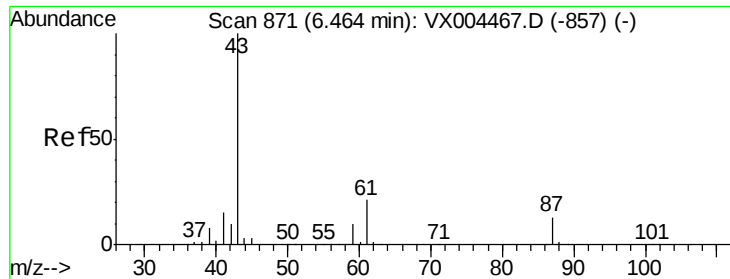
MMDadoda
9/13/2018 10:58:49 AM



#42
1,2-Dichloroethane
Concen: 18.94 ug/l
RT: 6.20 min Scan# 828
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.0	0.0	20.6	





#43

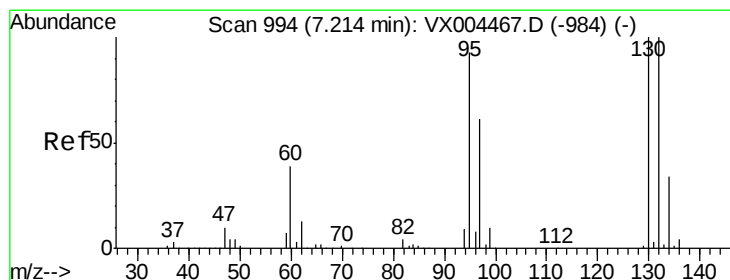
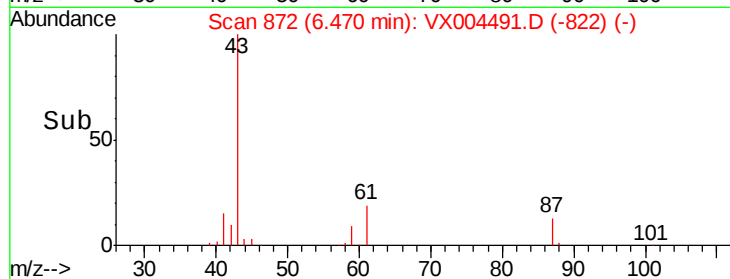
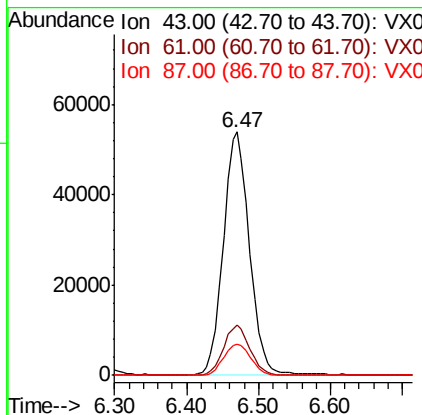
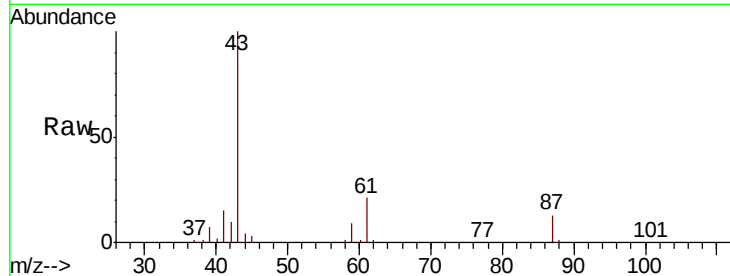
Isopropyl Acetate
 Concen: 20.32 ug/l
 RT: 6.47 min Scan# 872
 Delta R.T. 0.01 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.7	17.0	25.4
87	13.4	11.4	17.2

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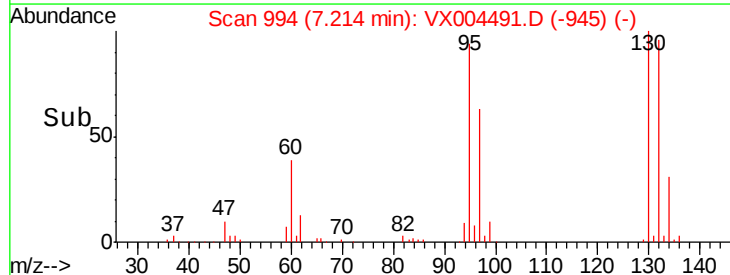
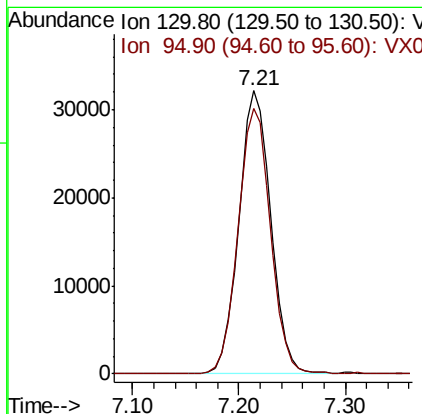
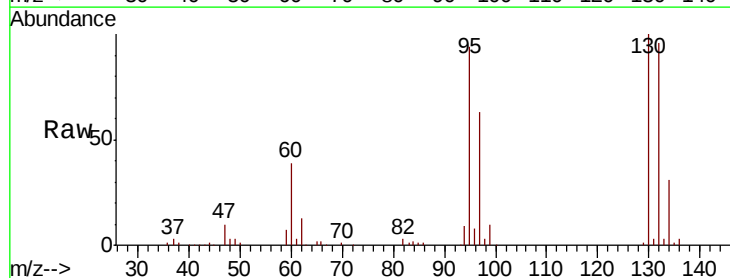
MMDadoda
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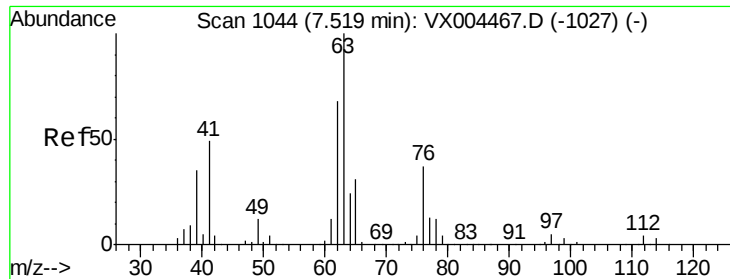


#44

Trichloroethene
 Concen: 19.90 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	181.6





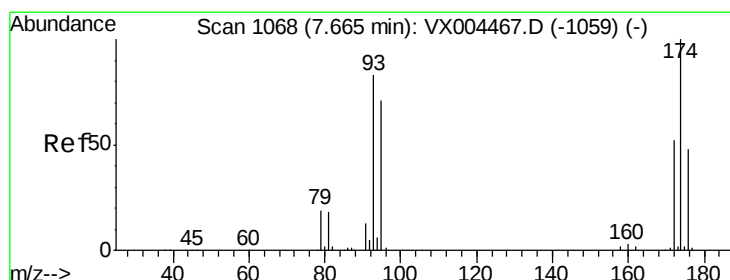
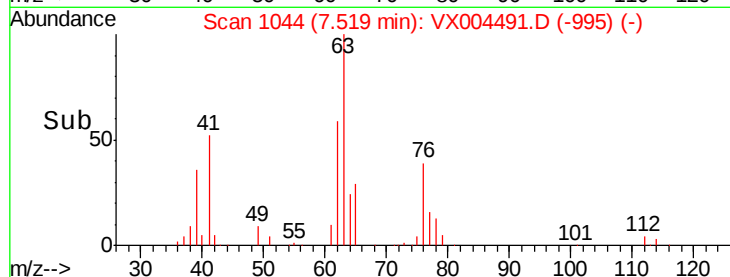
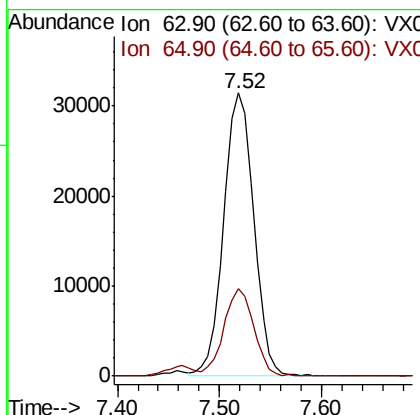
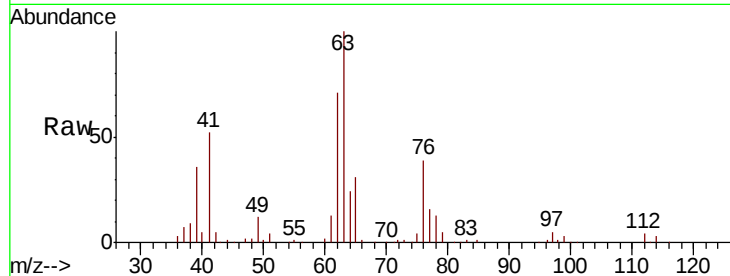
#45
 1,2-Dichloropropane
 Concen: 20.43 ug/l
 RT: 7.52 min Scan# 1044
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.3	36.5

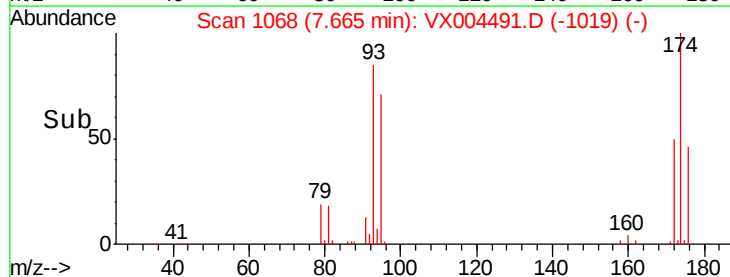
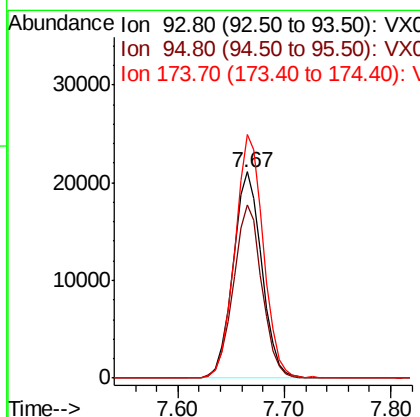
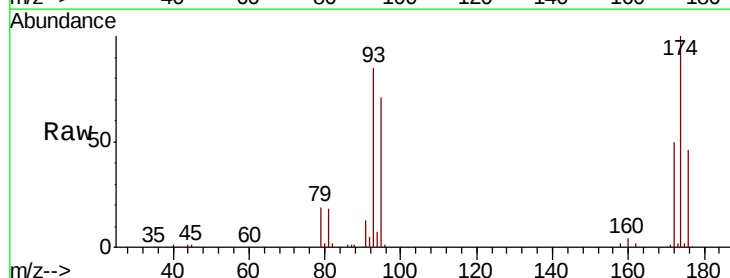
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#46
 Dibromomethane
 Concen: 20.00 ug/l
 RT: 7.67 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.5	98.3
174	117.1	94.2	141.4





#47

Bromodichloromethane

Concen: 19.19 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

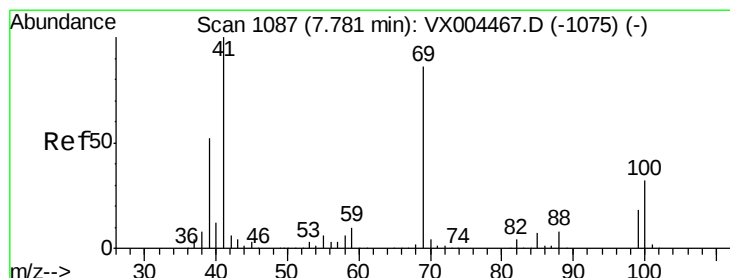
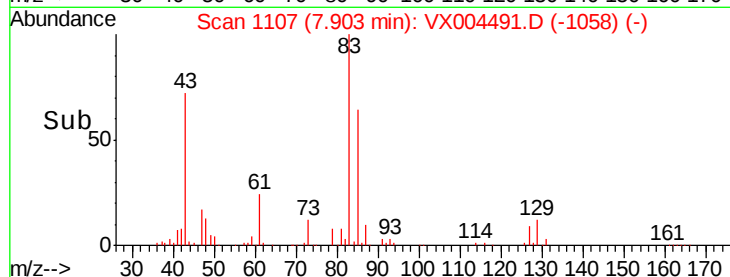
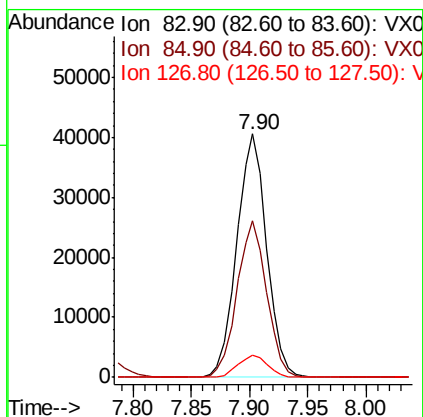
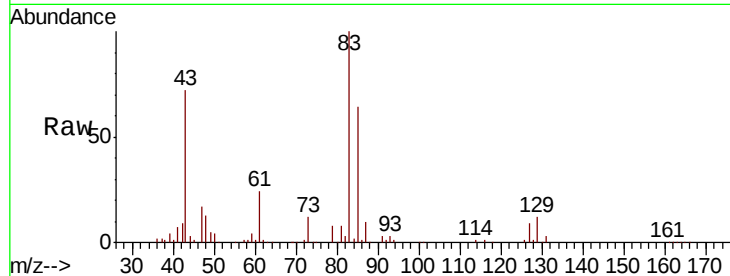
ClientSampleId :

VX0912MBS02

Tot Ion:	83	Resp:	72326
Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3
127	9.2	7.3	10.9

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#48

Methyl methacrylate

Concen: 21.04 ug/l

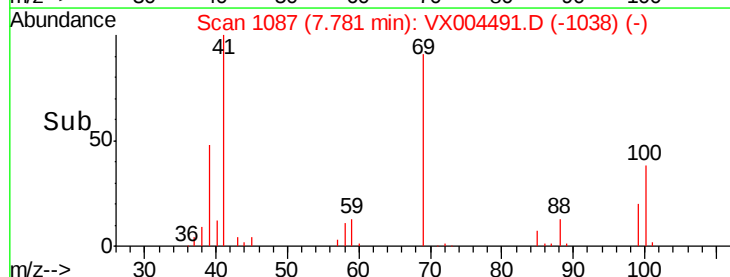
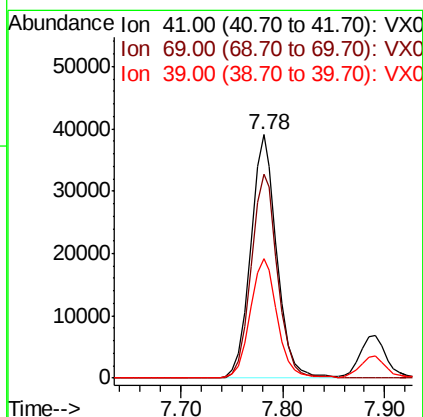
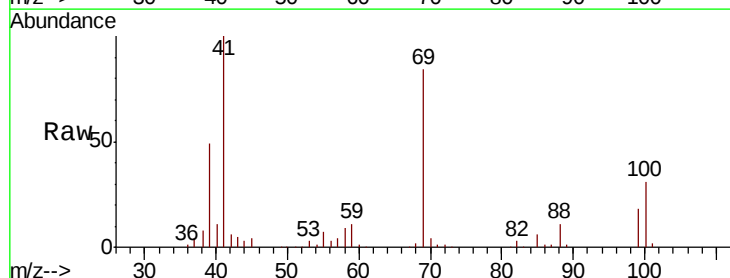
RT: 7.78 min Scan# 1087

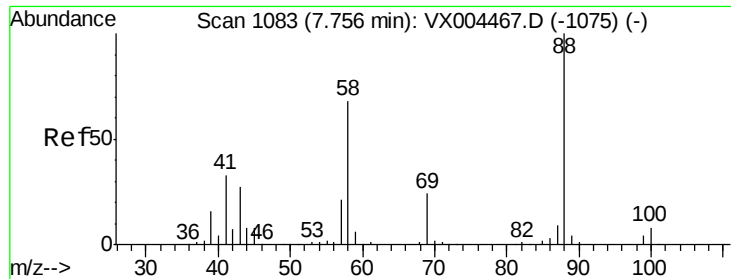
Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tgt Ion:	41	Resp:	69528
Ion	Ratio	Lower	Upper
41	100		
69	85.5	70.2	105.4
39	50.5	42.7	64.1





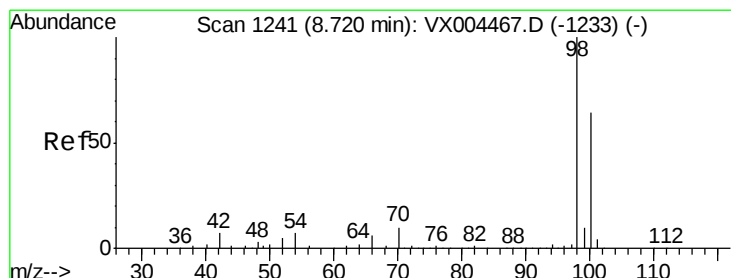
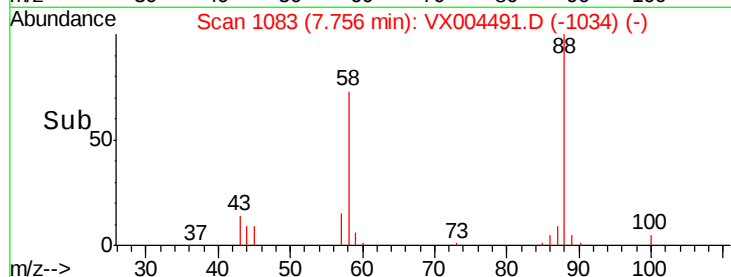
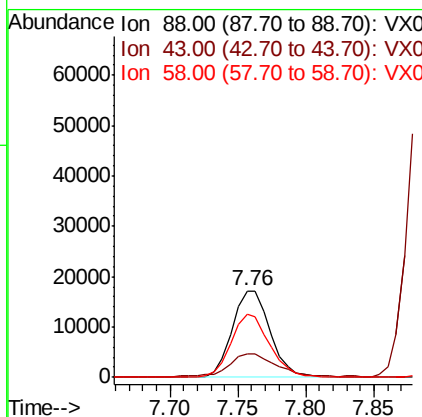
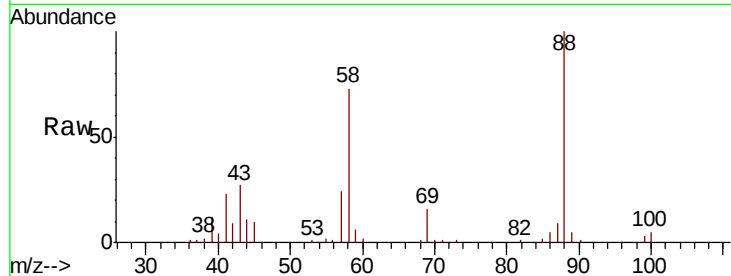
#49
1,4-Dioxane
Concen: 430.03 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.2	24.7	37.1
58	73.7	55.3	82.9

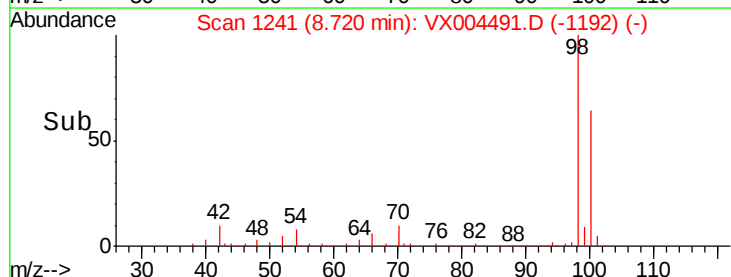
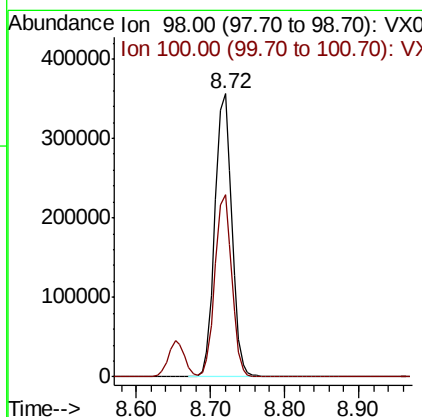
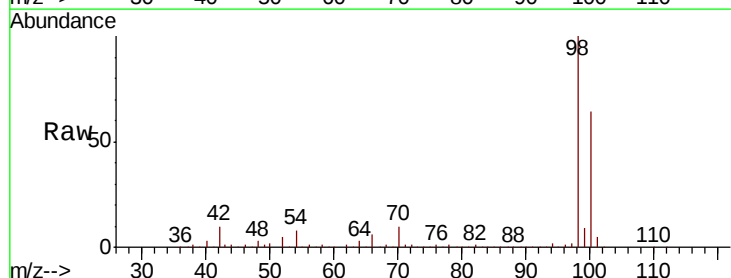
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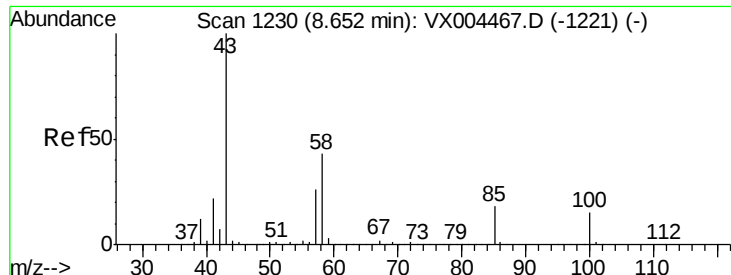
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#50
Toluene-d8
Concen: 49.79 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.9	79.3





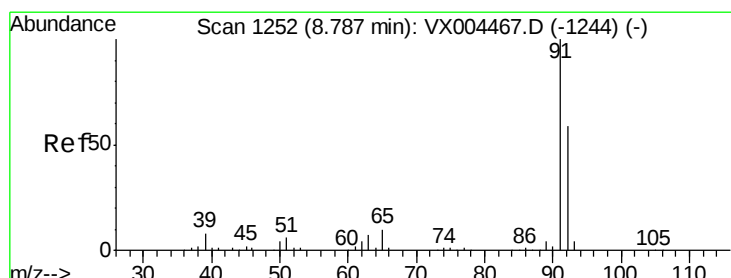
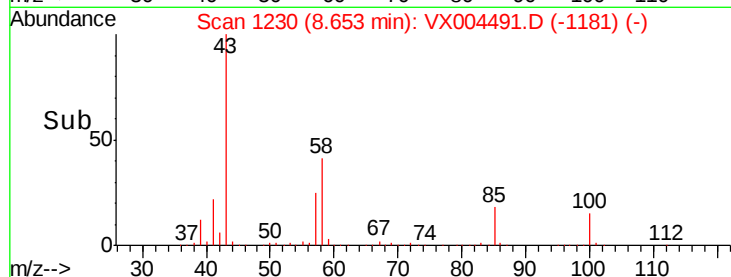
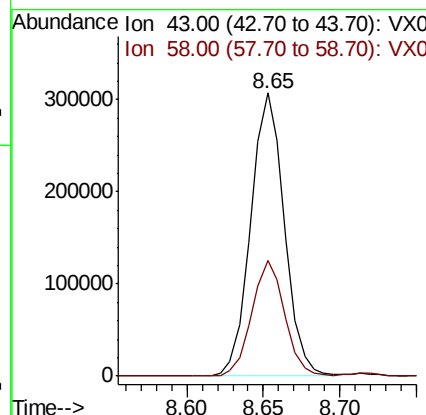
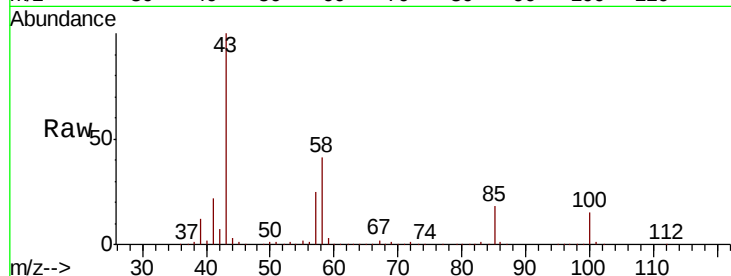
#51
4-Methyl-2-Pentanone
Concen: 99.63 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	43	58	Ratio	Lower	Upper
43	100				
58	40.0		33.1	49.7	

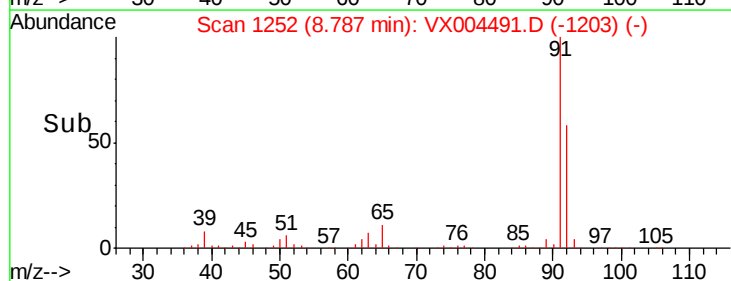
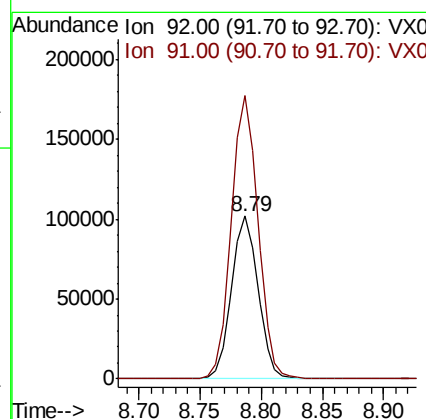
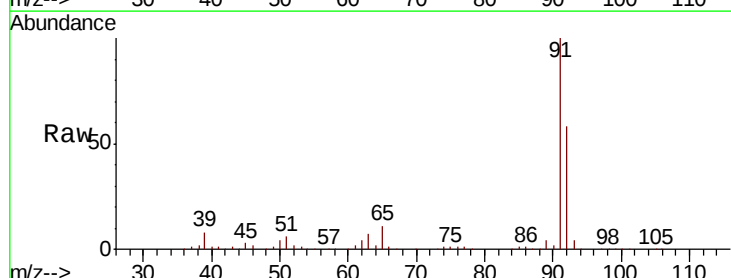
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#52
Toluene
Concen: 19.92 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	92	91	Ratio	Lower	Upper
92	100				
91	174.3		136.4	204.6	





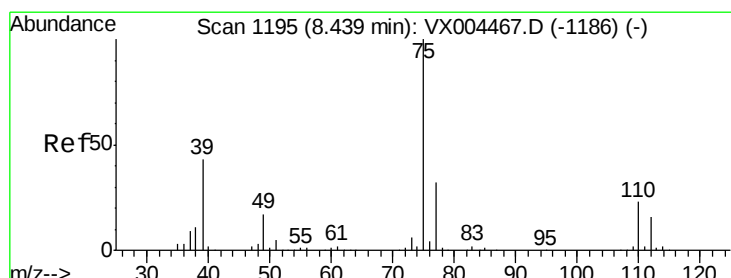
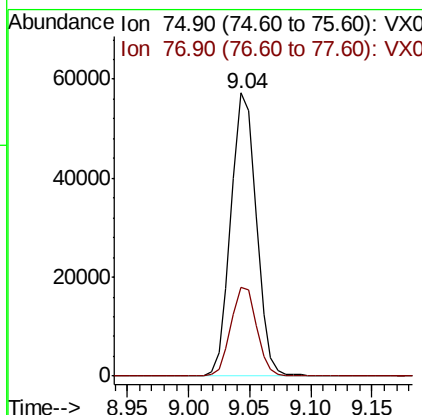
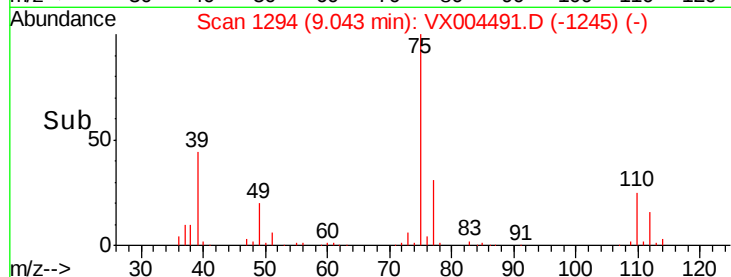
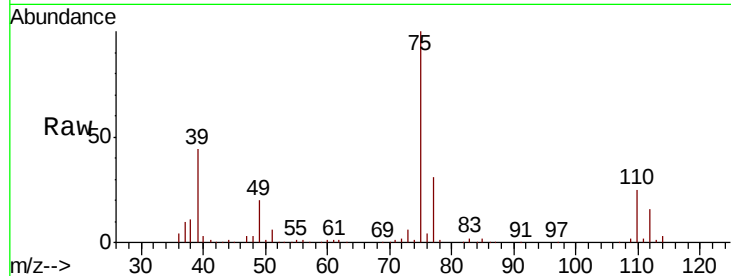
#53
t-1,3-Dichloropropene
Concen: 18.70 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.6	37.0

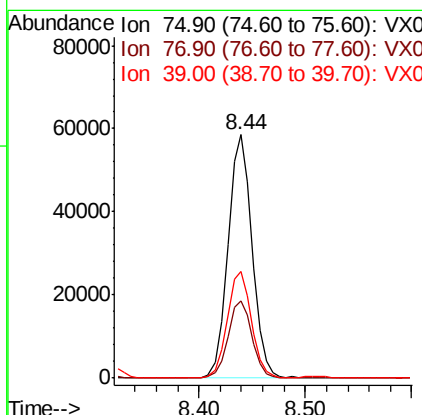
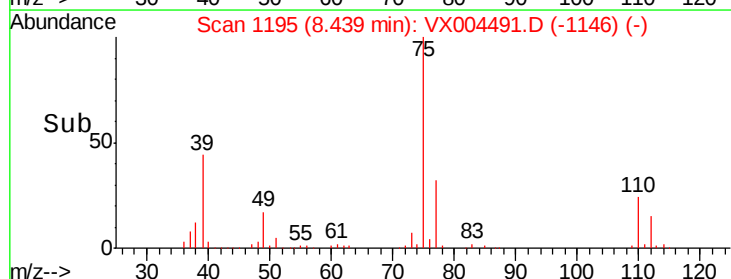
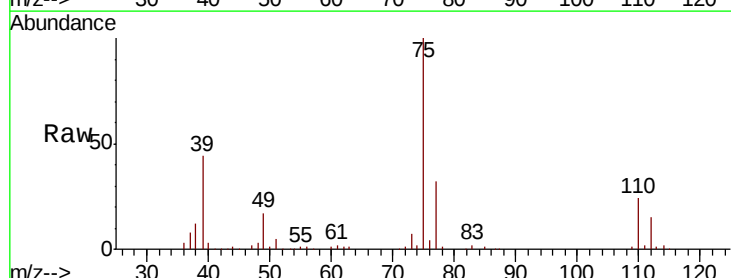
Manual Integrations
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9/13/2018 10:58:49 AM



#54
cis-1,3-Dichloropropene
Concen: 20.64 ug/l
RT: 8.44 min Scan# 1195
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.2	39.2
39	43.6	36.4	54.6





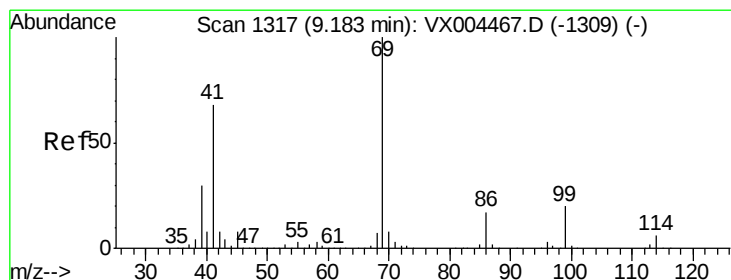
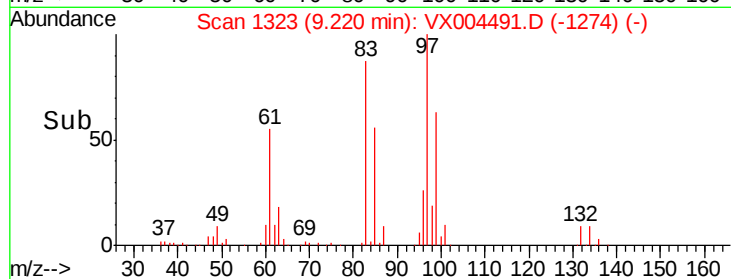
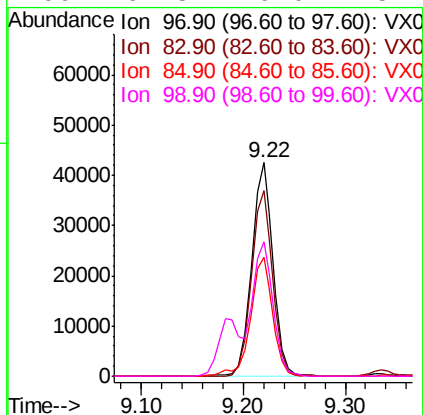
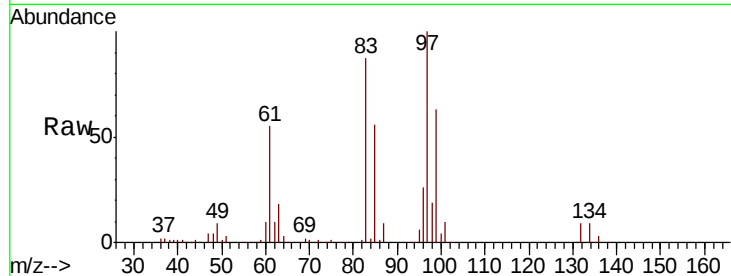
#55
 1,1,2-Trichloroethane
 Concen: 18.61 ug/l
 RT: 9.22 min Scan# 1323
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion:	97	Resp:	61914
Ion	Ratio	Lower	Upper
97	100		
83	87.1	66.4	99.6
85	55.9	43.3	64.9
99	62.8	49.0	73.4

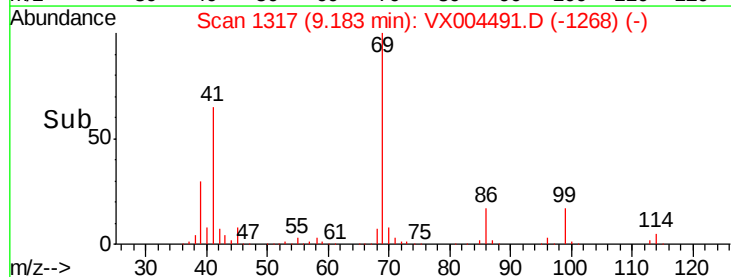
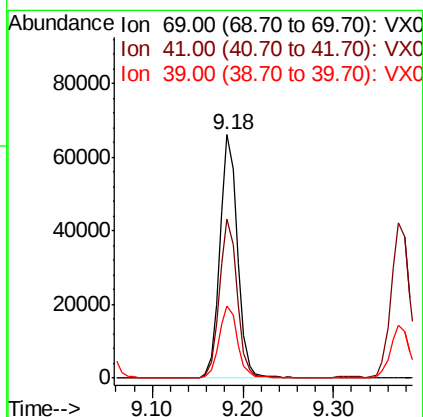
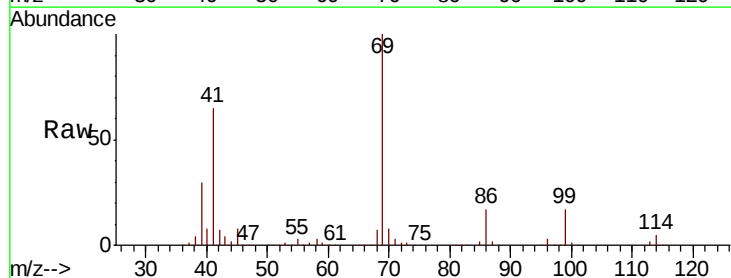
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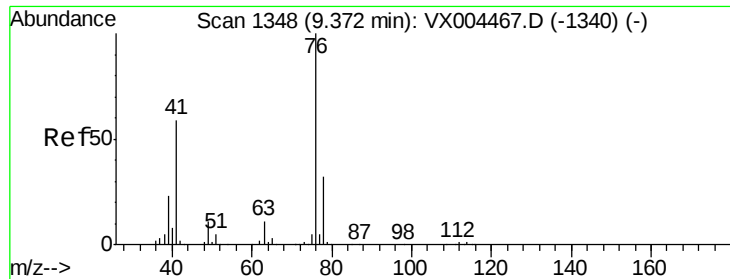
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#56
 Ethyl methacrylate
 Concen: 19.12 ug/l
 RT: 9.18 min Scan# 1317
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion:	69	Resp:	89982
Ion	Ratio	Lower	Upper
69	100		
41	66.2	51.0	76.4
39	30.9	26.1	39.1





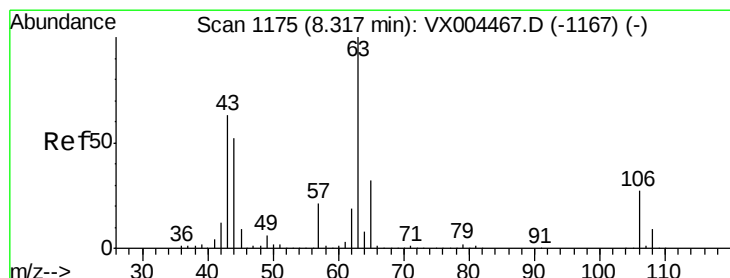
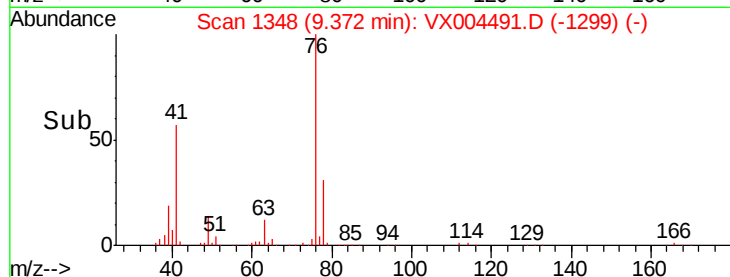
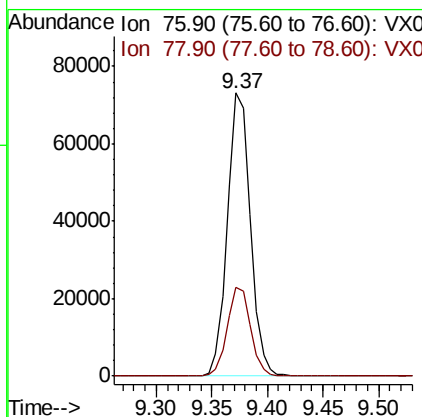
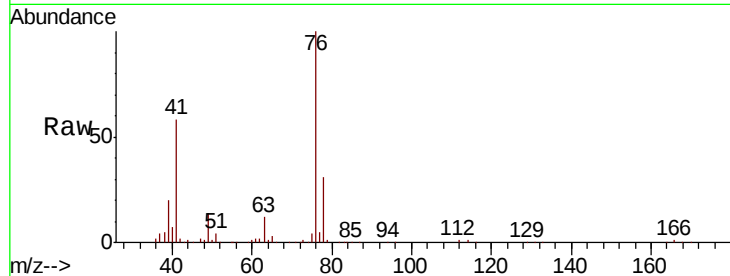
#57
 1,3-Dichloropropane
 Concen: 19.40 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

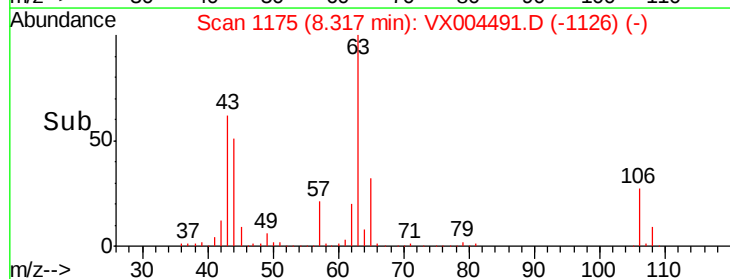
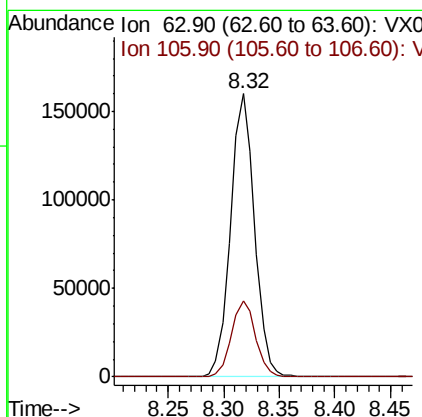
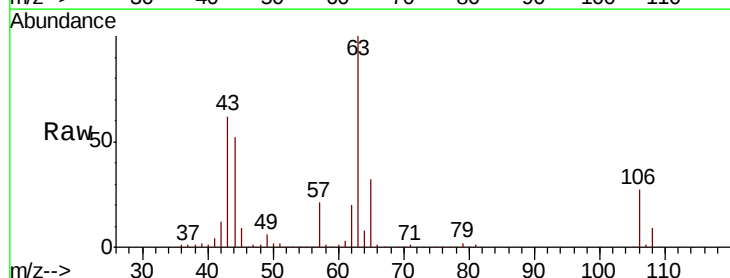
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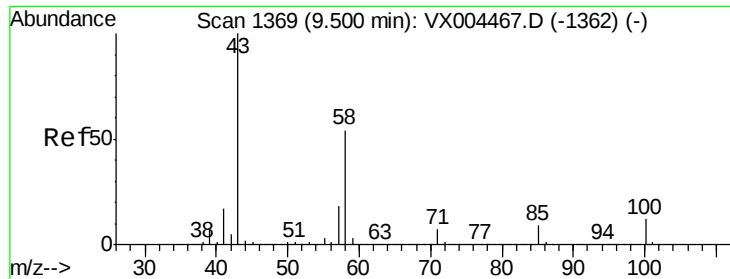
MMDadoda
 9/13/2018 10:58:49 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.74 ug/l
 RT: 8.32 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	23.9	35.9





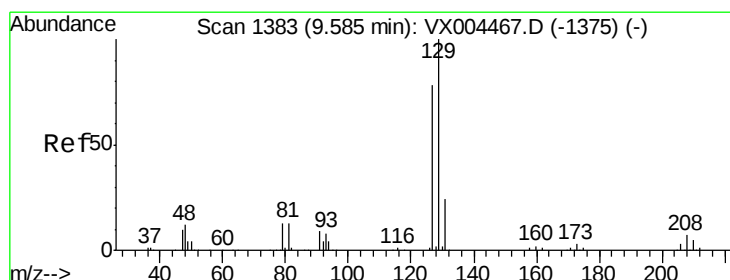
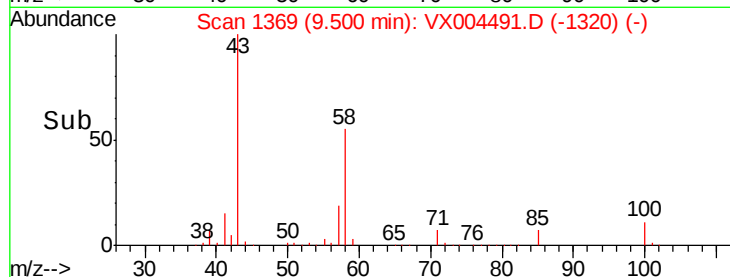
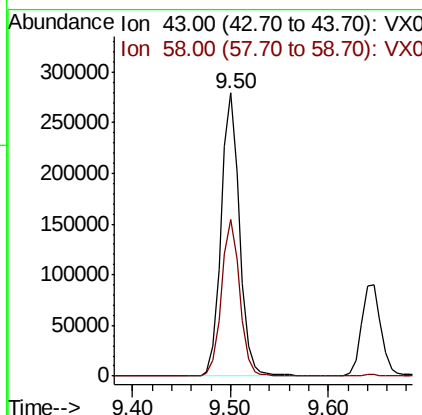
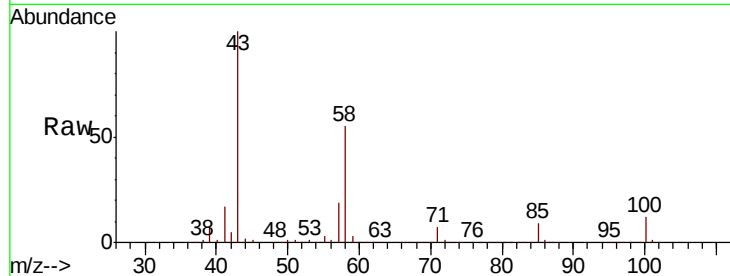
#59
2-Hexanone
Concen: 100.75 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion: 43 Resp: 364105
Ion Ratio Lower Upper
43 100
58 55.3 29.0 87.0

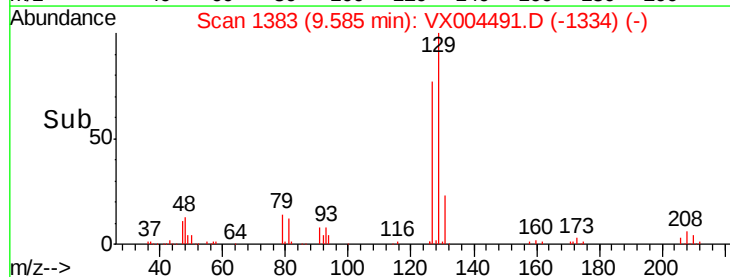
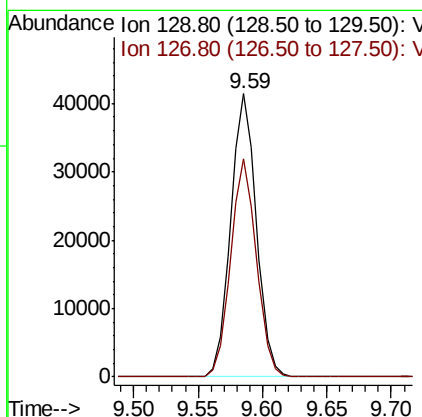
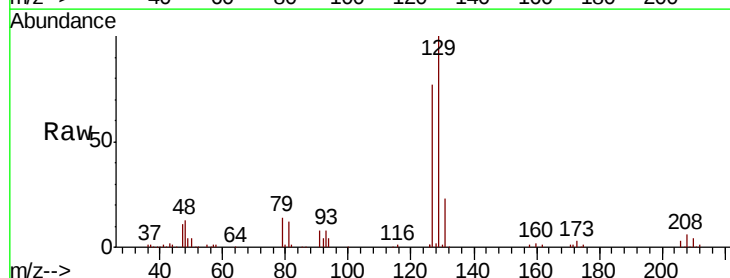
Manual Integrations
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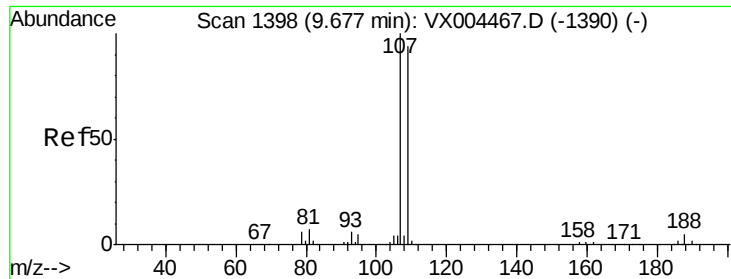
MMDadoda
9/13/2018 10:58:49 AM



#60
Dibromochloromethane
Concen: 18.49 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion: 129 Resp: 57922
Ion Ratio Lower Upper
129 100
127 76.7 38.5 115.5





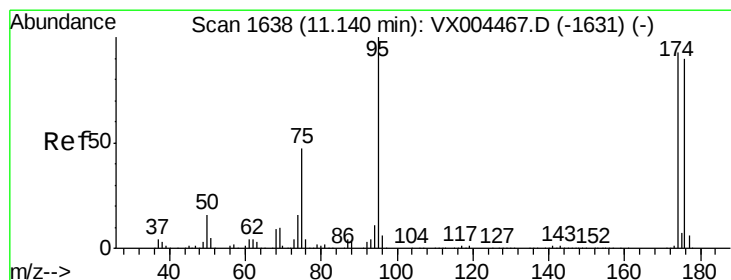
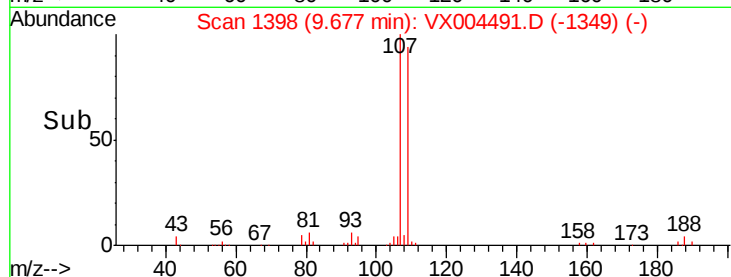
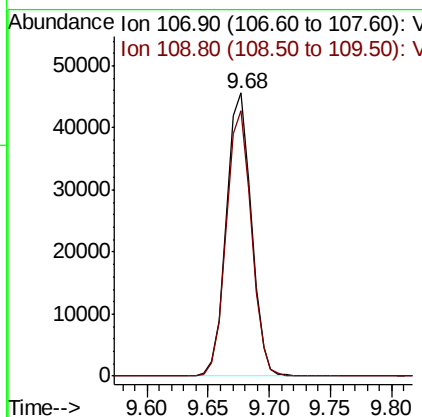
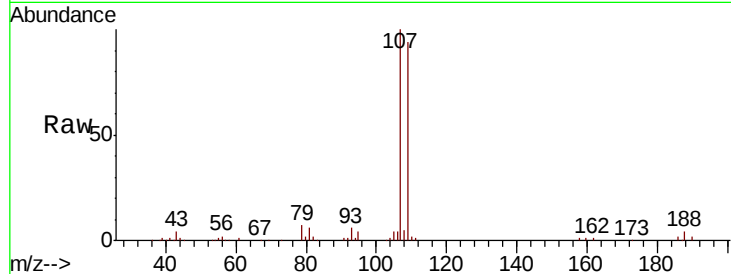
#61
 1,2-Dibromoethane
 Concen: 20.26 ug/l
 RT: 9.68 min Scan# 1398
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.0	114.0

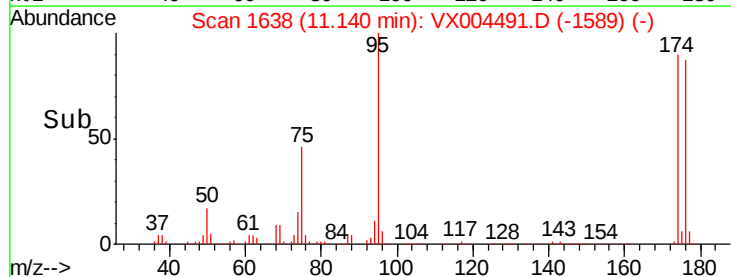
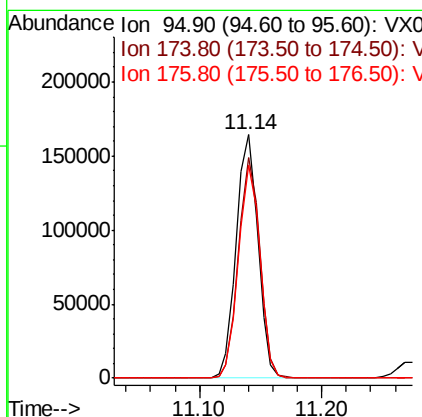
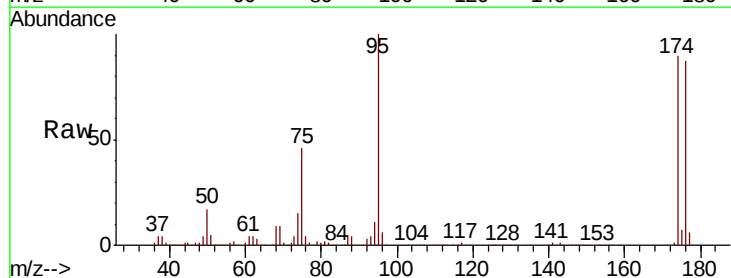
Manual Integrations
 APPROVED

MMDadoda
 9/13/2018 10:58:49 AM



#62
 4-Bromofluorobenzene
 Concen: 50.69 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	185.2
176	86.5	0.0	178.6





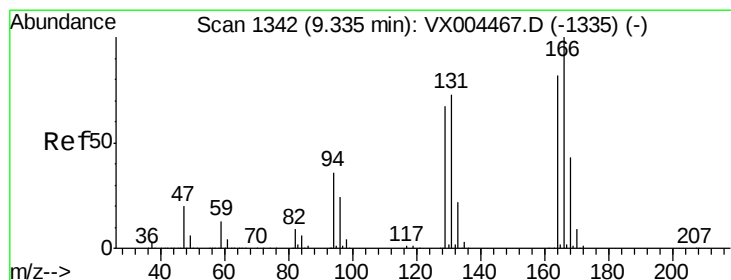
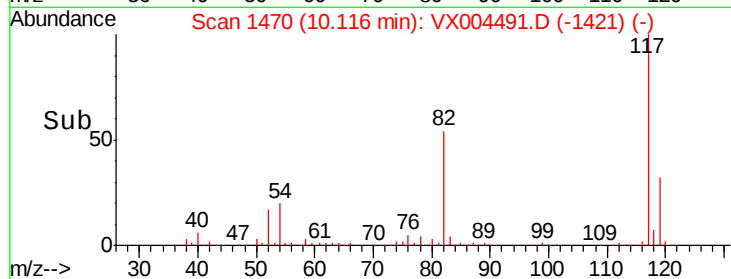
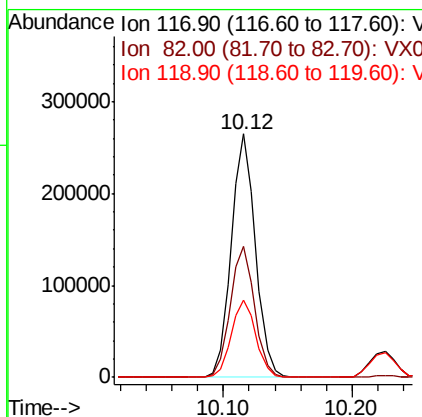
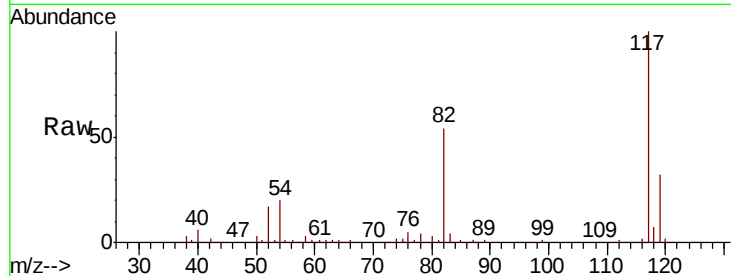
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	47.8	71.6
119	31.9	29.3	43.9

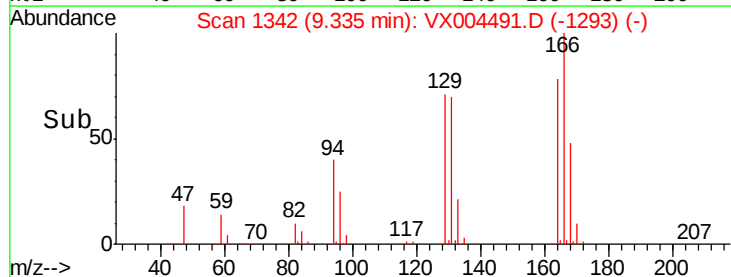
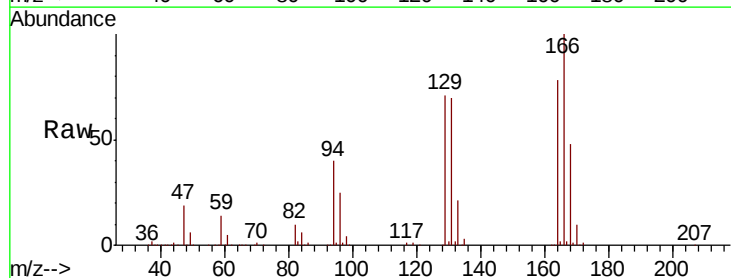
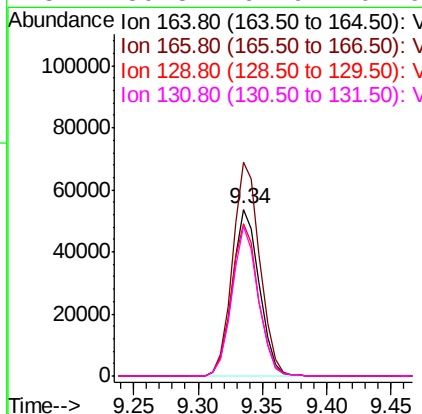
Manual Integrations
APPROVED

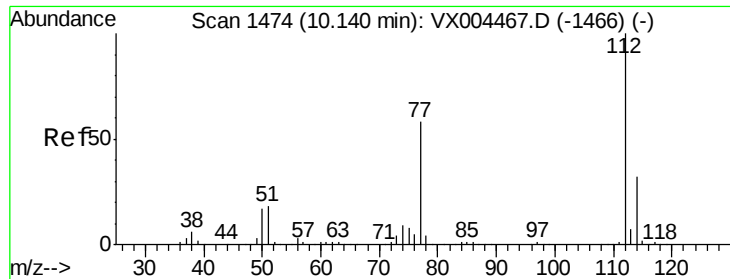
MMDadoda
9/13/2018 10:58:49 AM



#64
Tetrachloroethene
Concen: 18.02 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	102.8	154.2
129	91.2	69.4	104.0
131	89.8	67.9	101.9





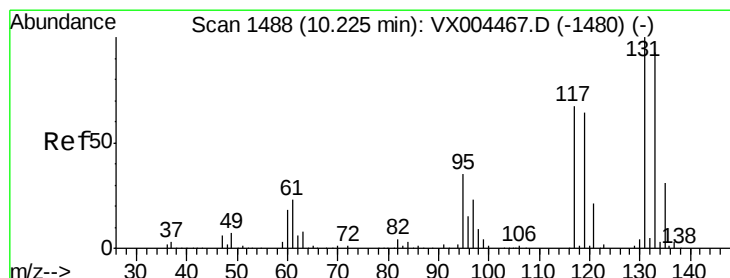
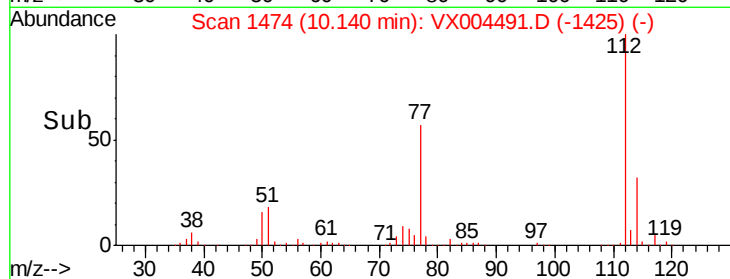
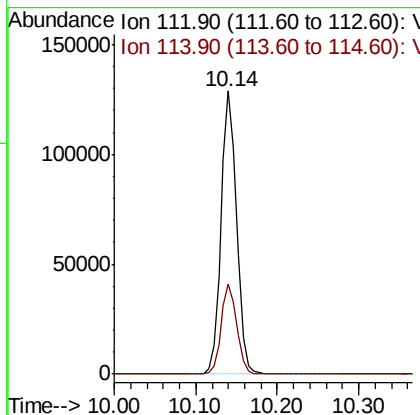
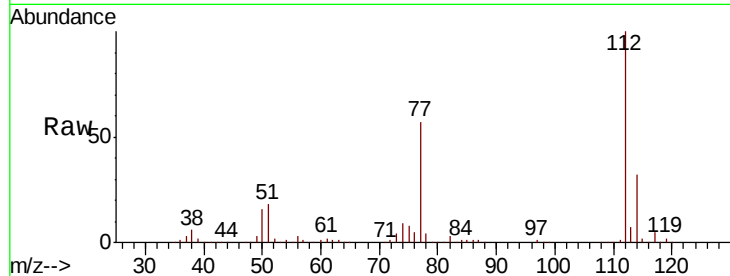
#65
Chlorobenzene
Concen: 19.84 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion:112 Resp: 171552
Ion Ratio Lower Upper
112 100
114 32.1 27.8 41.8

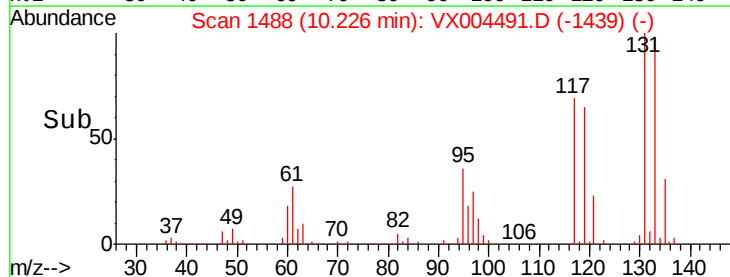
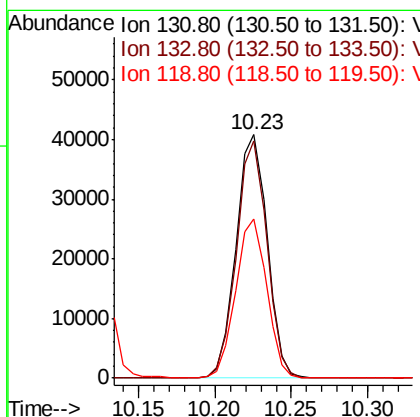
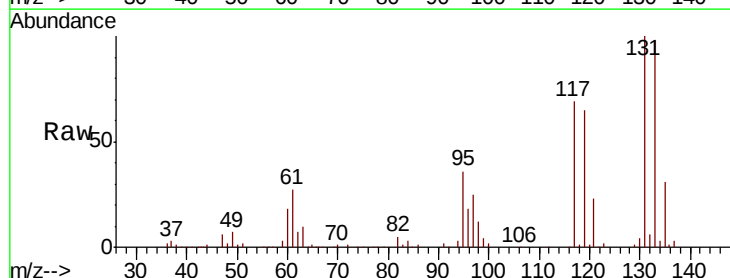
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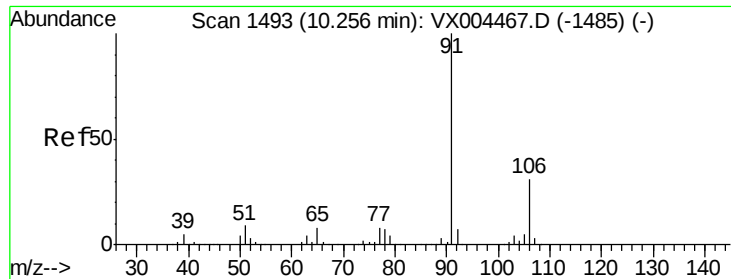
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.32 ug/l
RT: 10.23 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion:131 Resp: 57584
Ion Ratio Lower Upper
131 100
133 95.6 48.1 144.4
119 65.3 32.9 98.6





#67

Ethyl Benzene

Concen: 20.26 ug/l

RT: 10.26 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 91 Resp: 284725

Ion Ratio Lower Upper

91 100

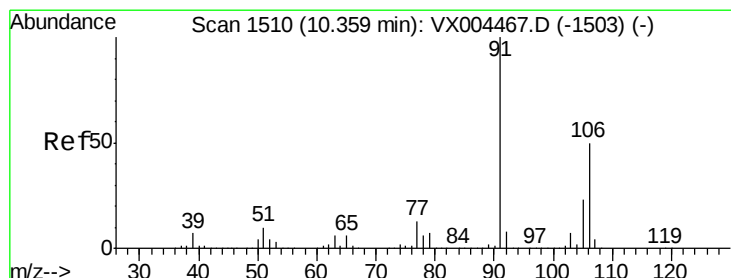
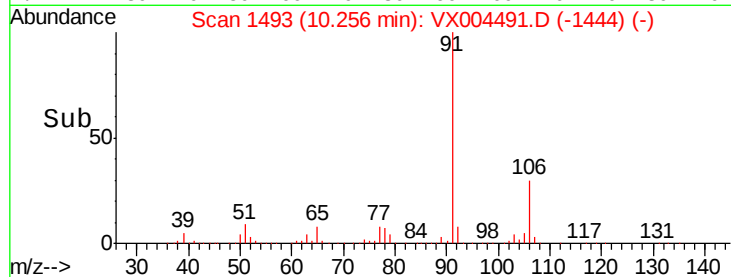
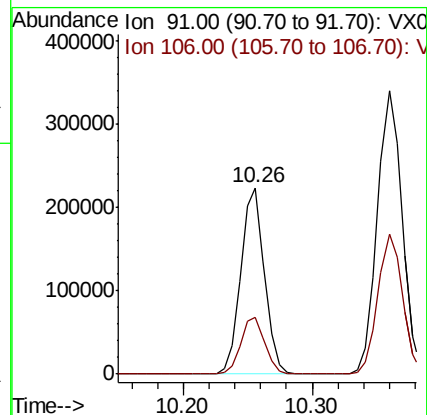
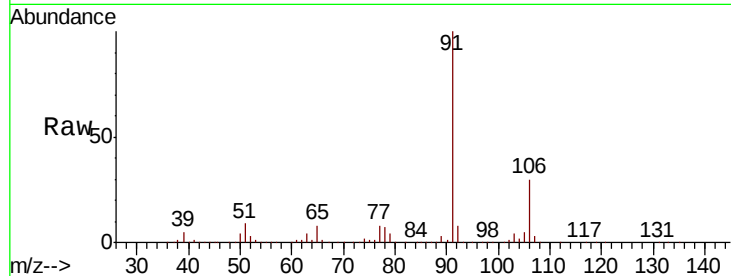
106 30.4 25.9 38.9

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#68

m/p-Xylenes

Concen: 41.04 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX004491.D

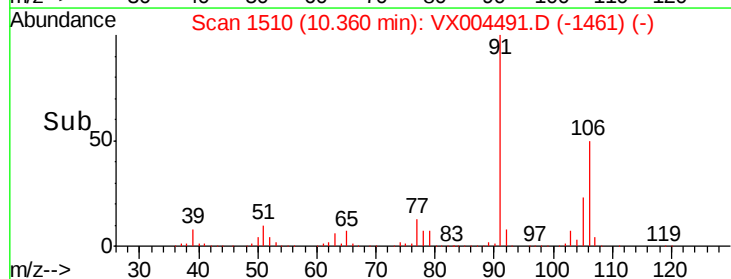
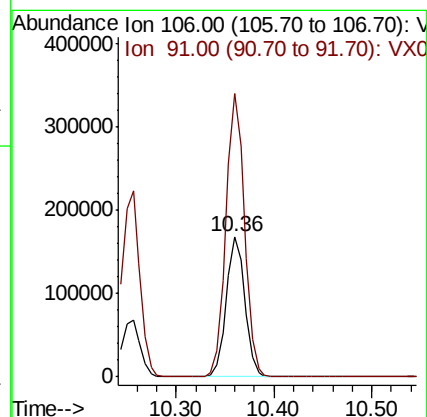
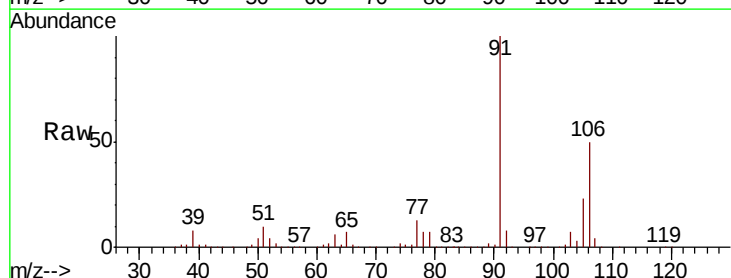
Acq: 12 Sep 2018 13:40

Tgt Ion: 106 Resp: 222215

Ion Ratio Lower Upper

106 100

91 202.0 157.1 235.7





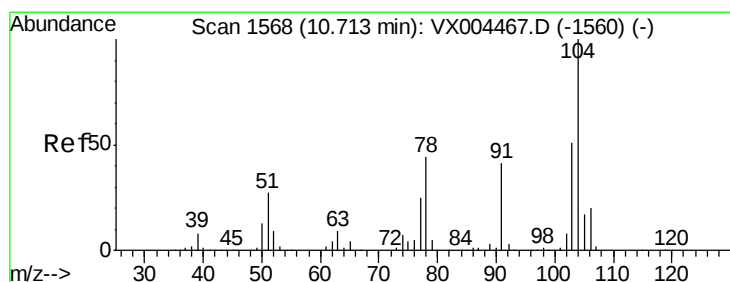
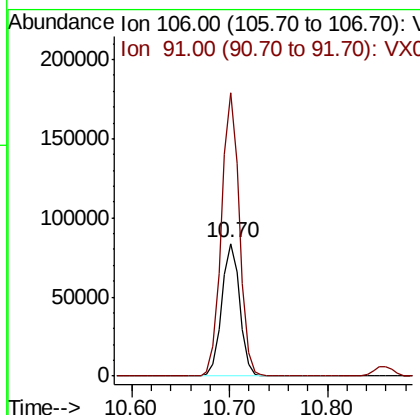
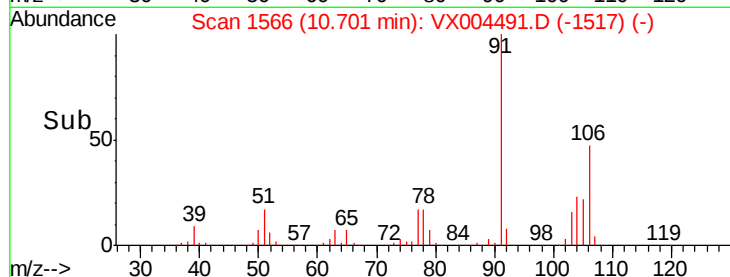
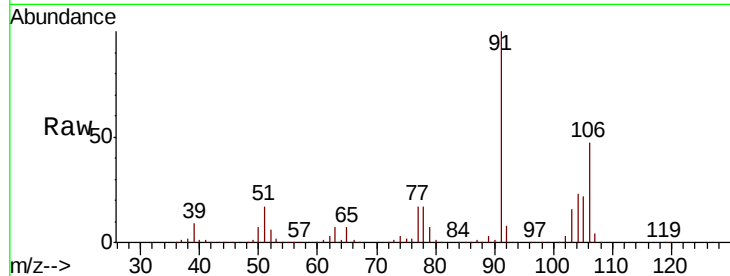
#69
o-Xylene
Concen: 20.54 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	212.0	105.1	315.1	

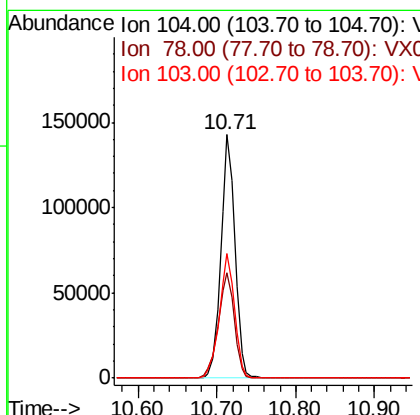
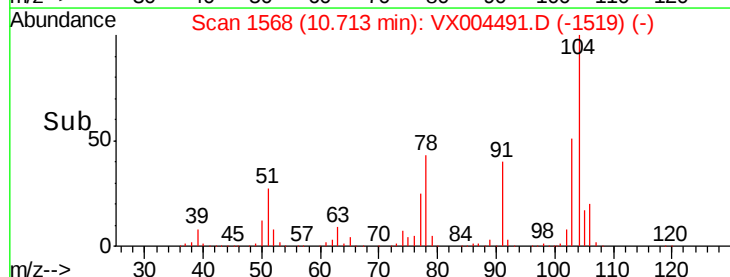
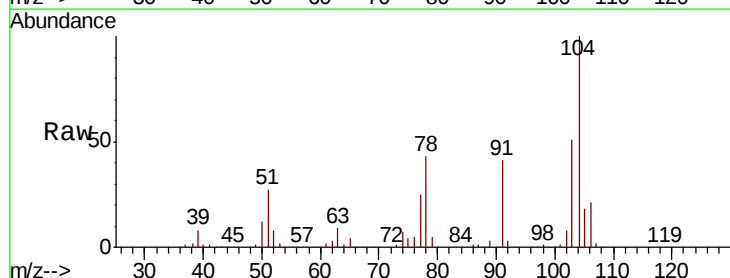
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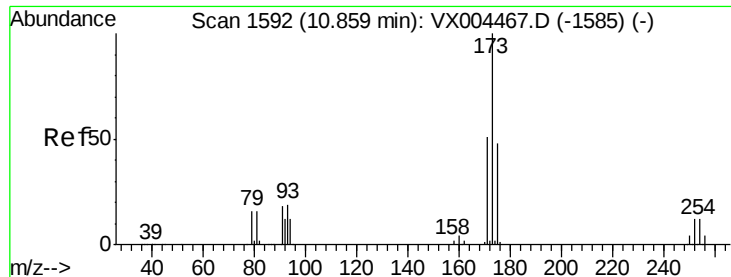
MMDadoda
9/13/2018 10:58:49 AM



#70
Styrene
Concen: 20.71 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	49.0	37.4	56.0	
103	55.4	43.8	65.6	





#71

Bromoform

Concen: 17.77 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion:173 Resp: 43502

Ion Ratio Lower Upper

173 100

175 50.3 24.1 72.3

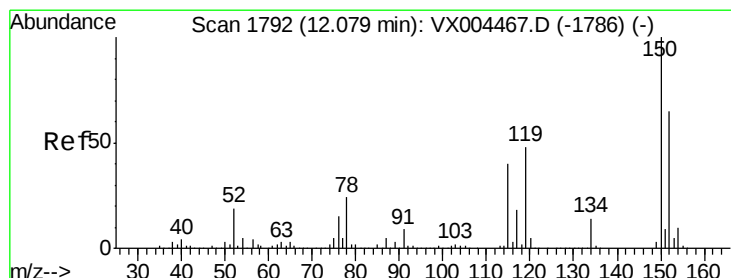
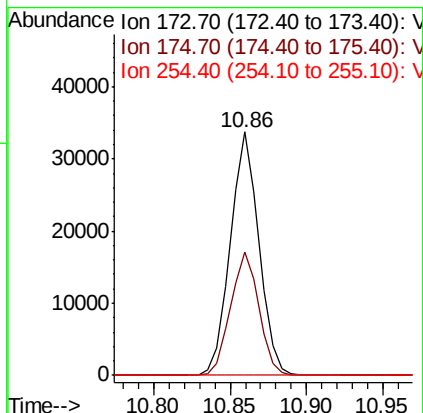
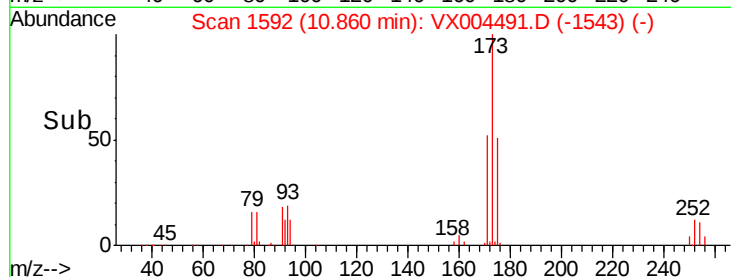
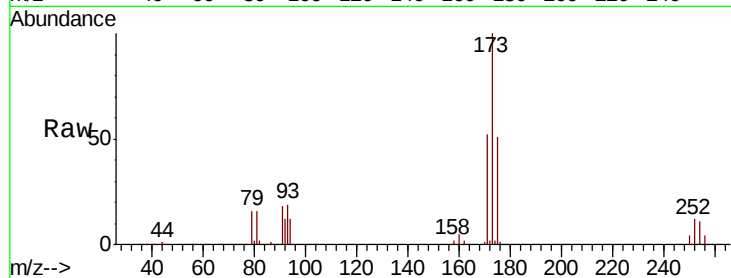
254 0.0 0.2 0.2#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

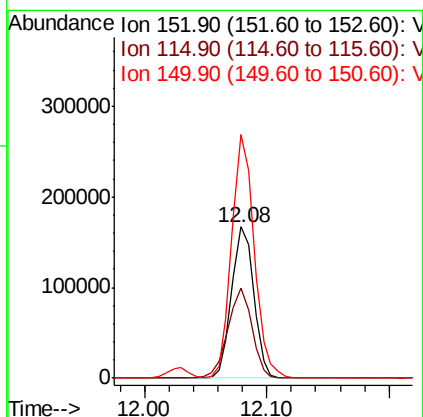
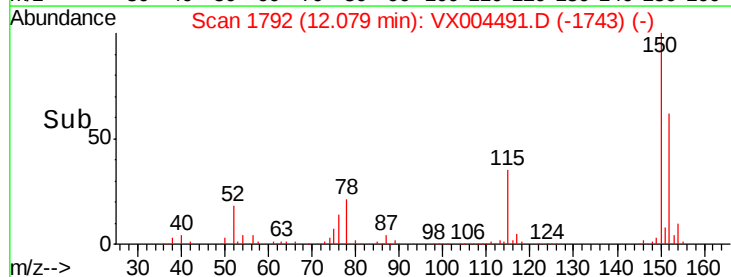
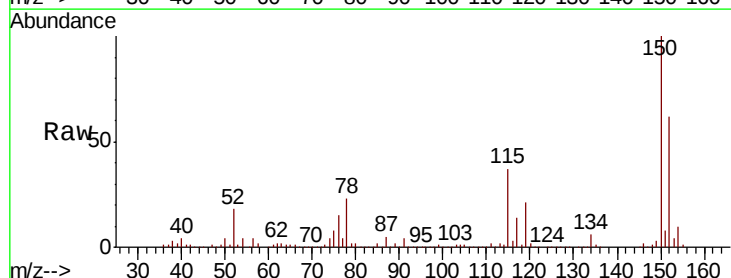
Tgt Ion:152 Resp: 208157

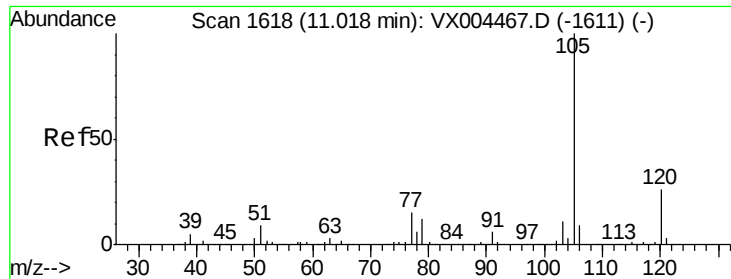
Ion Ratio Lower Upper

152 100

115 64.9 39.0 117.0

150 164.1 0.0 351.0





#73

Isopropylbenzene

Concen: 21.31 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampled :

VX0912MBS02

Tot Ion: 105 Resp: 292124

Ion Ratio Lower Upper

105 100

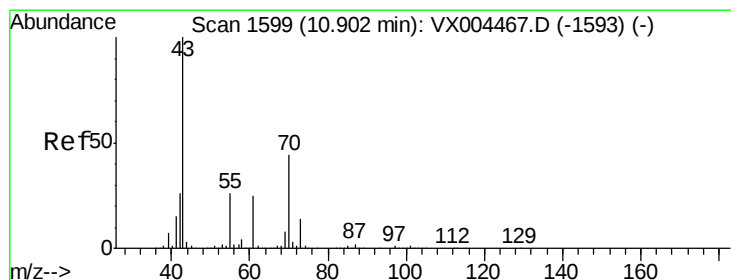
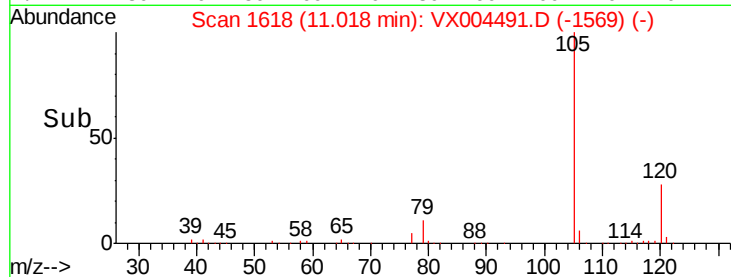
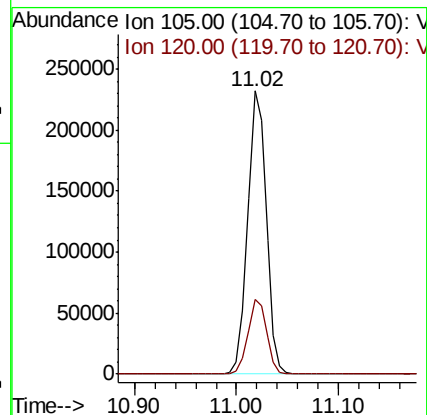
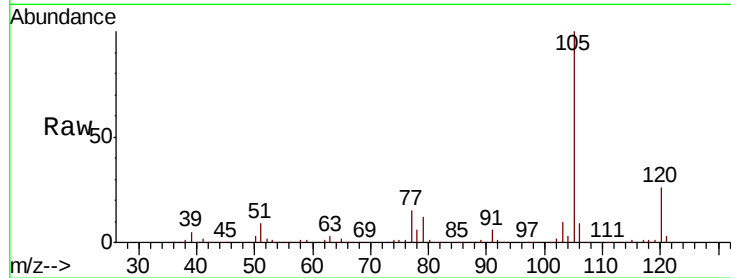
120 26.5 13.5 40.4

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#74

N-ethyl acetate

Concen: 20.84 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tgt Ion: 43 Resp: 120254

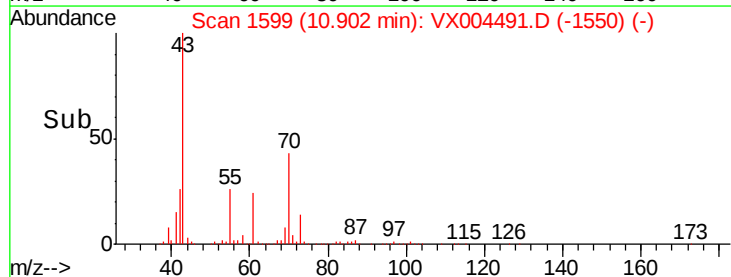
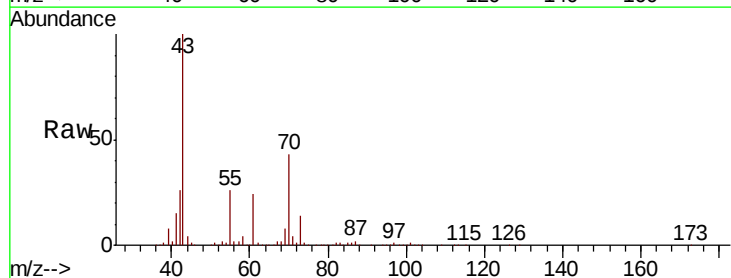
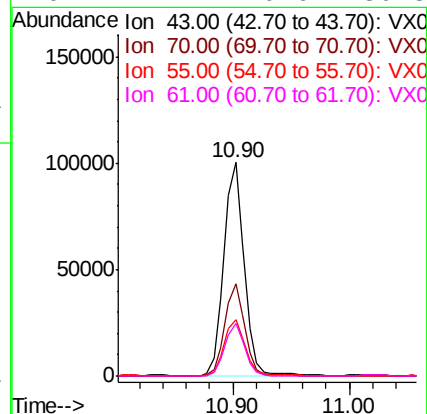
Ion Ratio Lower Upper

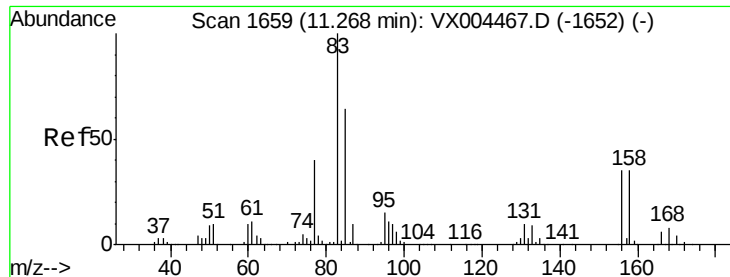
43 100

70 42.8 37.4 56.0

55 27.8 21.8 32.8

61 24.1 20.6 30.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.51 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 83 Resp: 90698

Ion Ratio Lower Upper

83 100

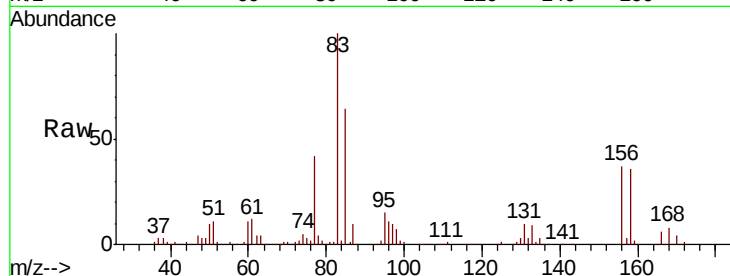
131 10.3 5.2 15.6

85 63.1 32.3 96.8

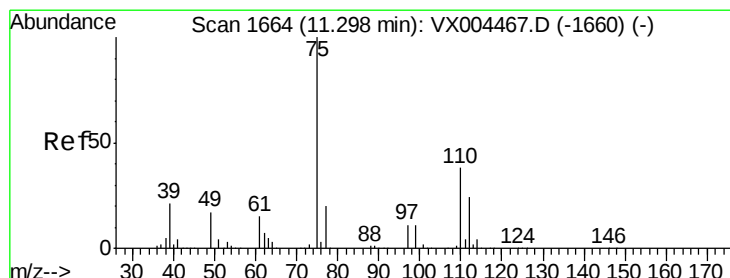
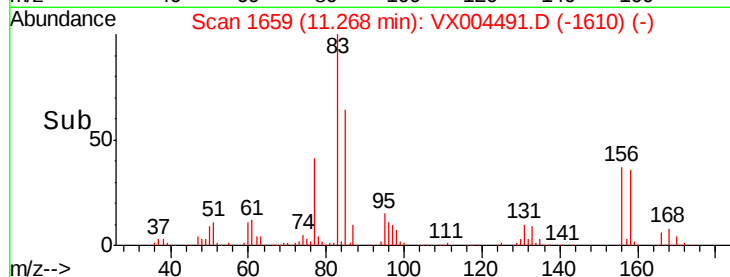
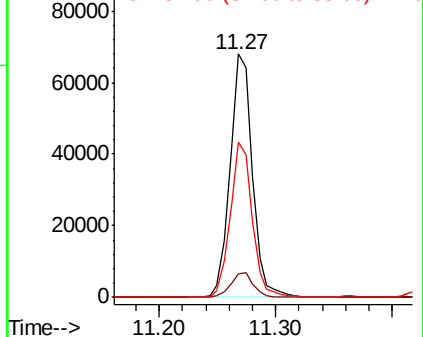
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Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 20.45 ug/l m

RT: 11.30 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VX004491.D

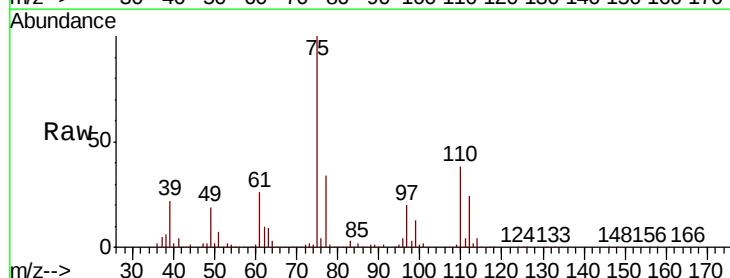
Acq: 12 Sep 2018 13:40

Tgt Ion: 75 Resp: 85648

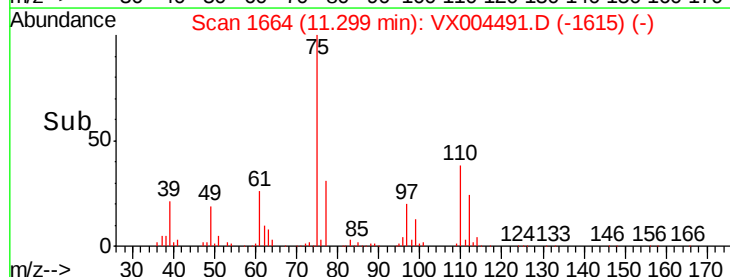
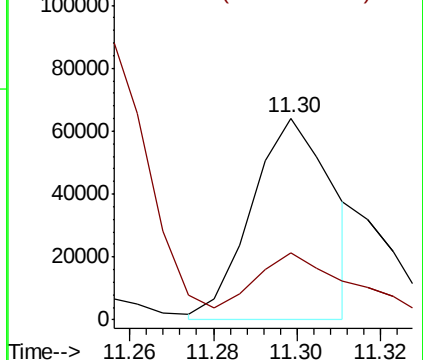
Ion Ratio Lower Upper

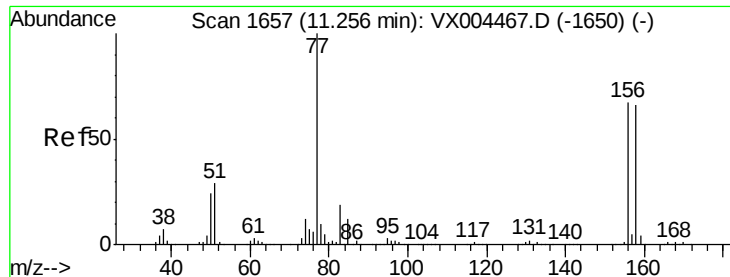
75 100

77 40.8 20.2 60.6



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





#77

Bromobenzene

Concen: 20.38 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion:156 Resp: 77213

Ion Ratio Lower Upper

156 100

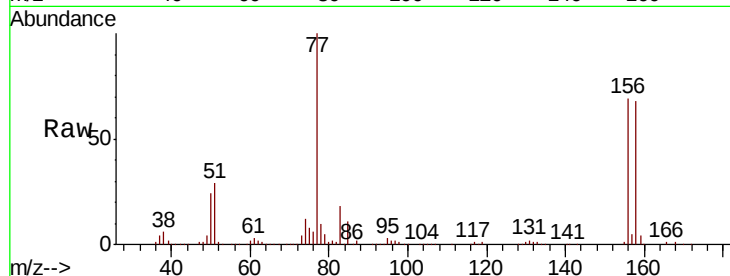
77 147.6 71.5 214.3

158 97.7 48.9 146.8

Manual Integrations
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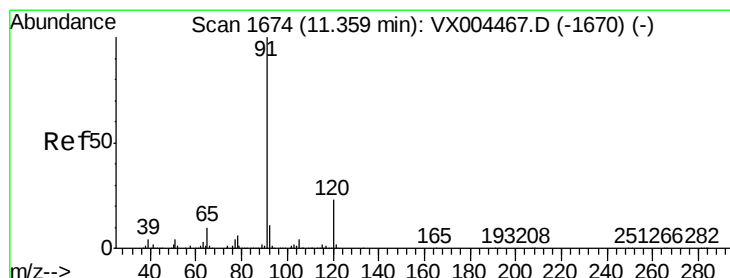
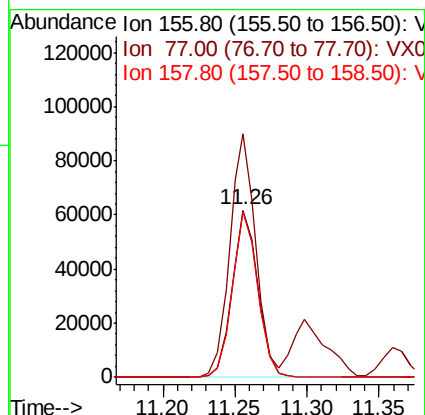
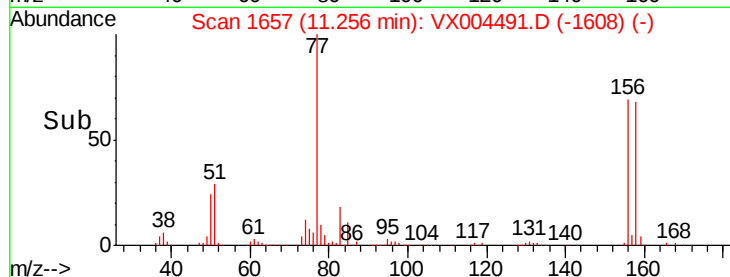
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.45 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX004491.D

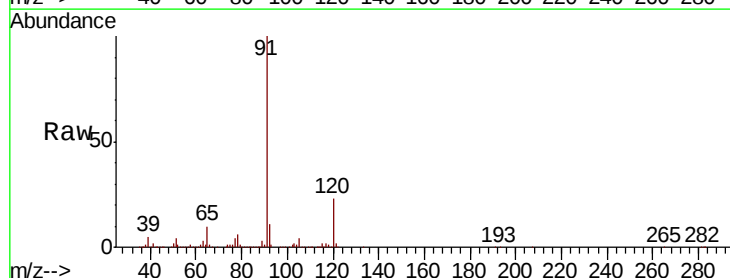
Acq: 12 Sep 2018 13:40

Tgt Ion: 91 Resp: 338167

Ion Ratio Lower Upper

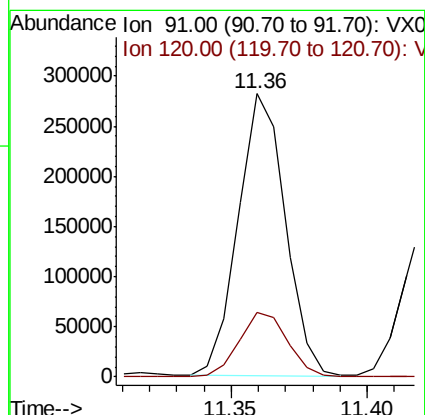
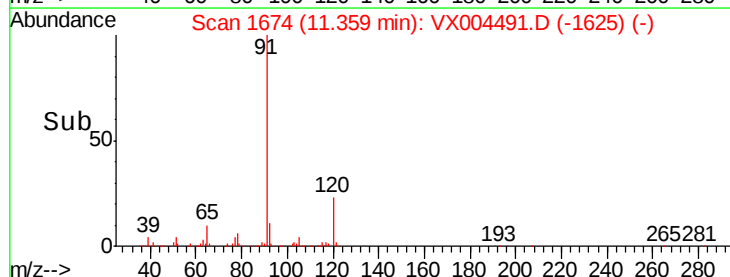
91 100

120 23.7 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.89 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 91 Resp: 199719

Ion Ratio Lower Upper

91 100

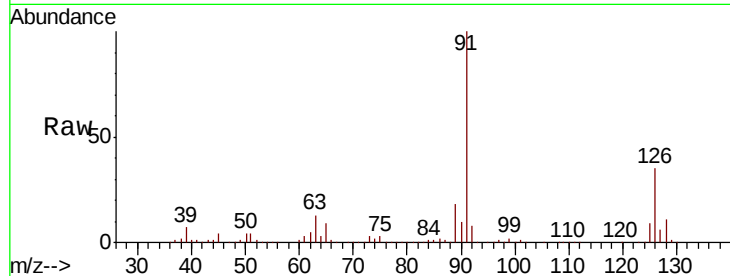
126 35.2 17.9 53.7

Manual Integrations

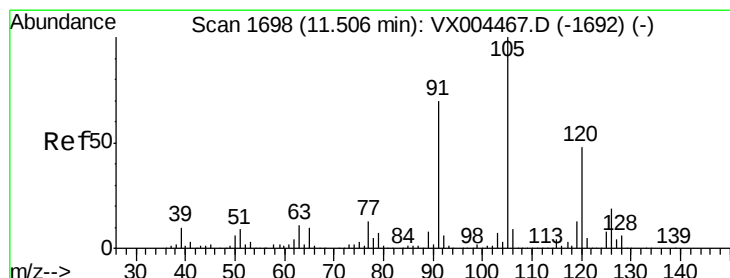
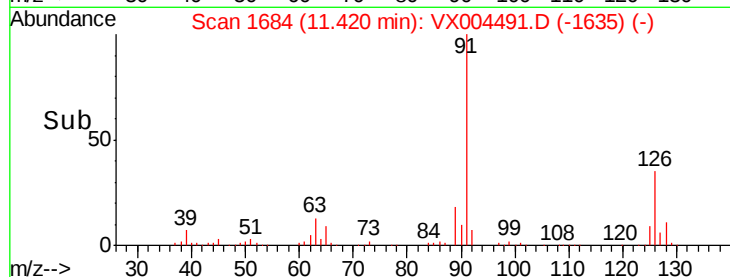
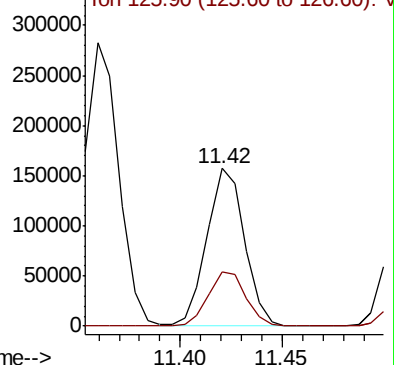
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Abundance Ion 91.00 (90.70 to 91.70): VX004467.D (-1679) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.20 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX004491.D

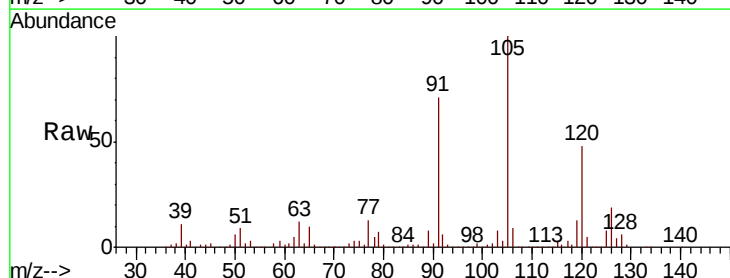
Acq: 12 Sep 2018 13:40

Tgt Ion:105 Resp: 244368

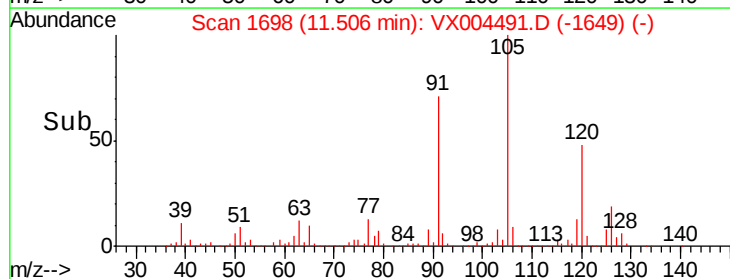
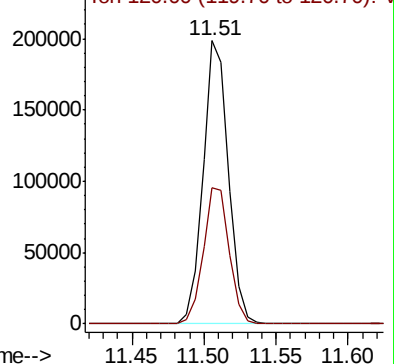
Ion Ratio Lower Upper

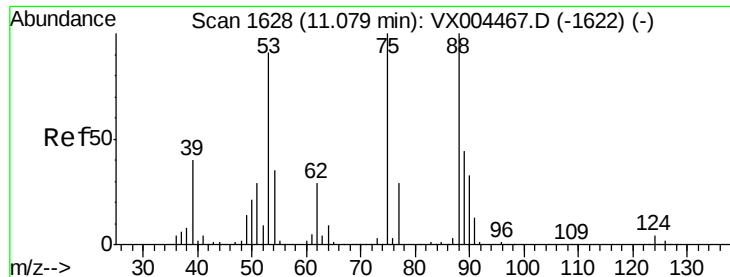
105 100

120 49.5 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VX004467.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.54 ug/l

RT: 11.08 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampleId :

VX0912MBS02

Tot Ion: 75 Resp: 25677

Ion Ratio Lower Upper

75 100

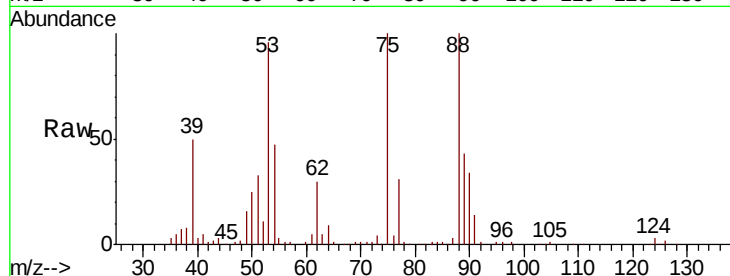
53 105.7 80.1 120.1

89 45.6 37.2 55.8

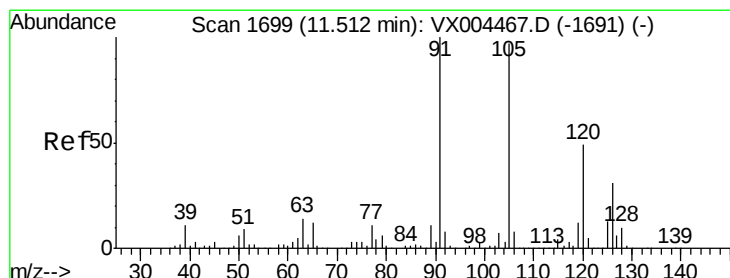
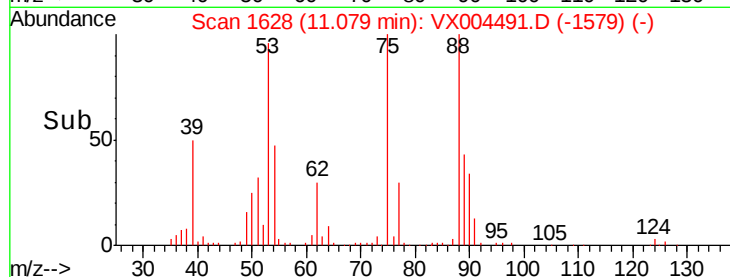
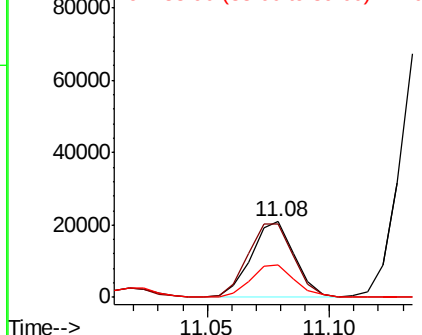
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Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 20.91 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VX004491.D

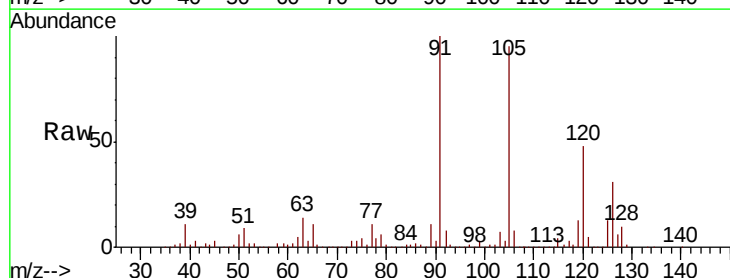
Acq: 12 Sep 2018 13:40

Tgt Ion: 91 Resp: 233325

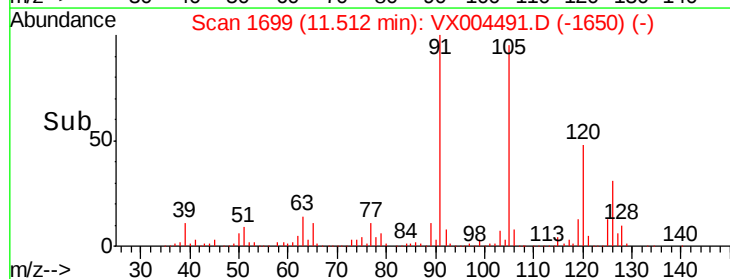
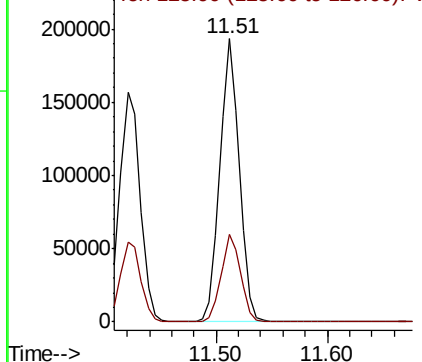
Ion Ratio Lower Upper

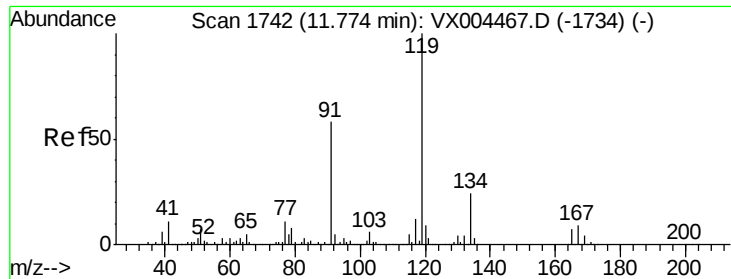
91 100

126 30.8 15.5 46.5



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 20.64 ug/l

RT: 11.77 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

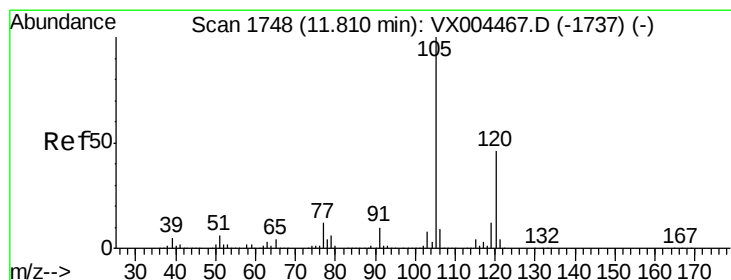
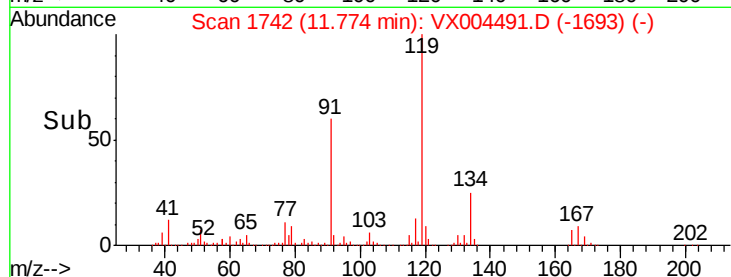
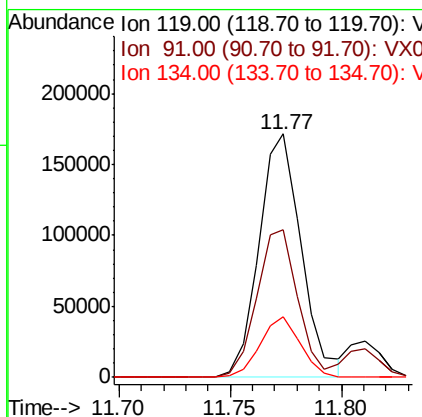
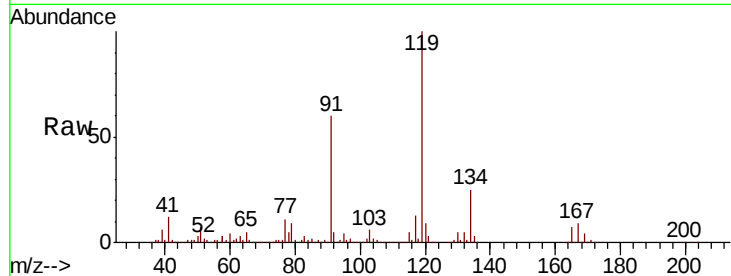
ClientSampleId :

VX0912MBS02

Tot Ion:	119	Resp:	226415
Ion Ratio	Lower	Upper	
119	100		
91	58.8	27.0	81.0
134	23.8	11.7	35.1

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.32 ug/l

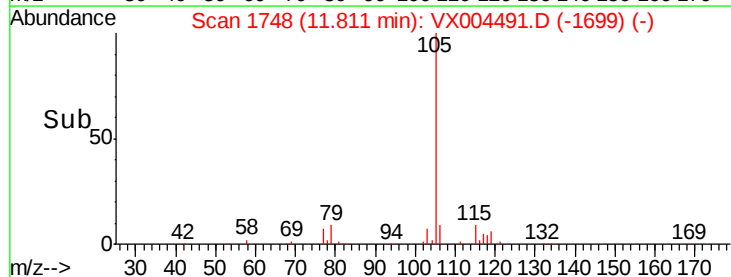
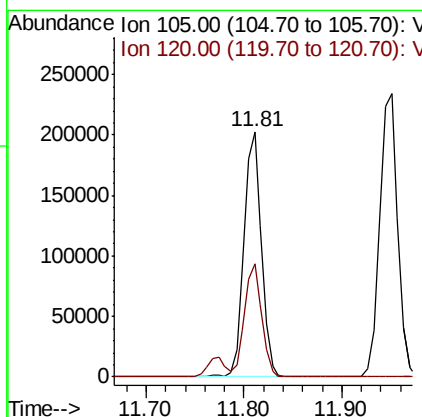
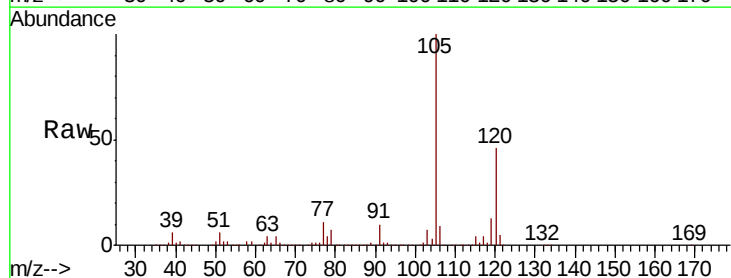
RT: 11.81 min Scan# 1748

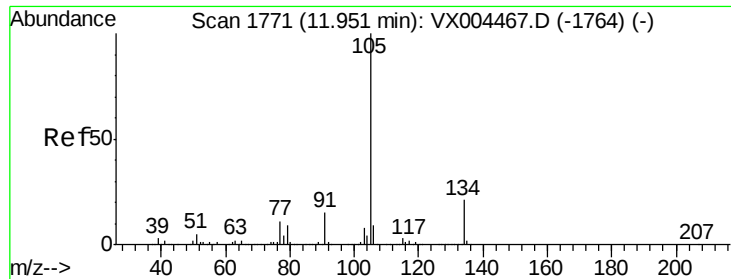
Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tgt Ion:	105	Resp:	250831
Ion Ratio	Lower	Upper	
105	100		
120	45.4	23.2	69.6





#85

sec-Butylbenzene

Concen: 21.15 ug/l

RT: 11.95 min Scan# 1771

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

ClientSampled :

VX0912MBS02

Tot Ion:105 Resp: 295730

Ion Ratio Lower Upper

105 100

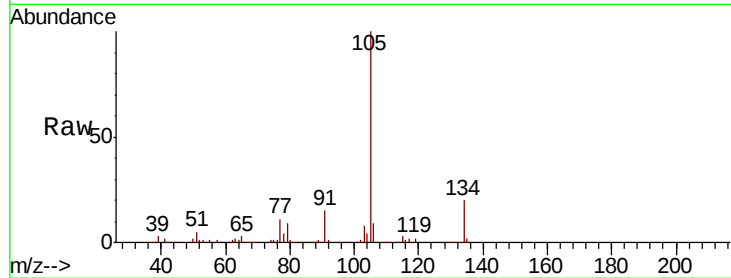
134 20.4 10.5 31.5

Manual Integrations

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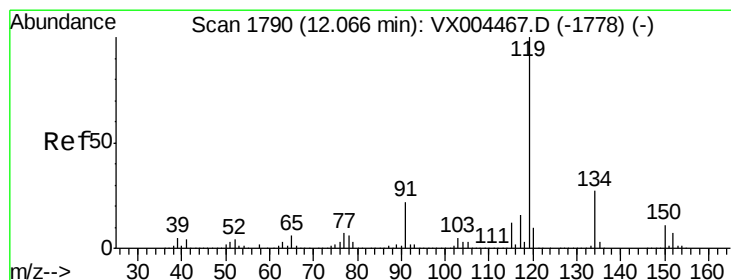
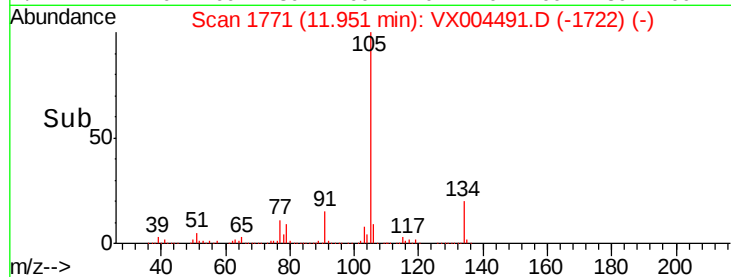
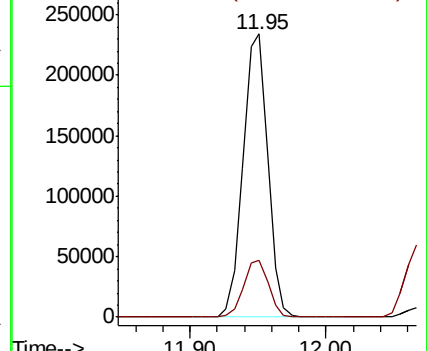
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.33 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

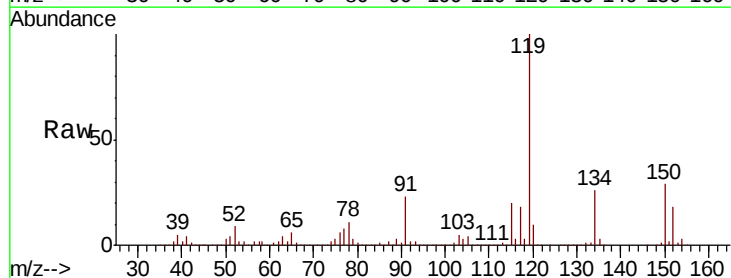
Tgt Ion:119 Resp: 263325

Ion Ratio Lower Upper

119 100

134 26.2 13.4 40.2

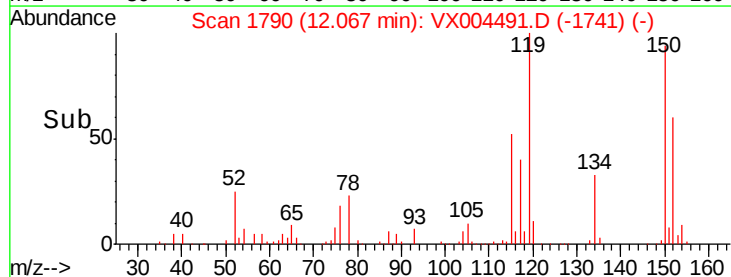
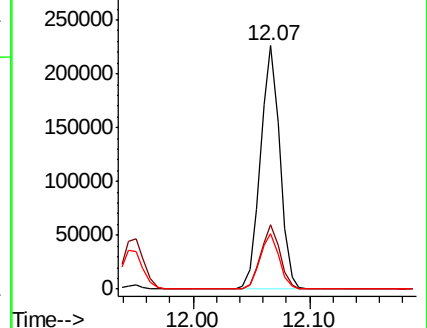
91 22.4 10.9 32.7

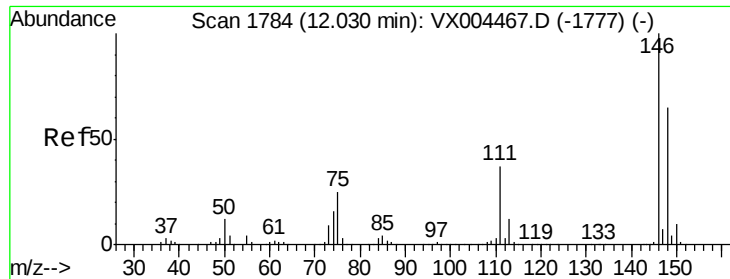


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#87

1,3-Dichlorobenzene

Concen: 20.13 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Instrument :

MSVOA_X

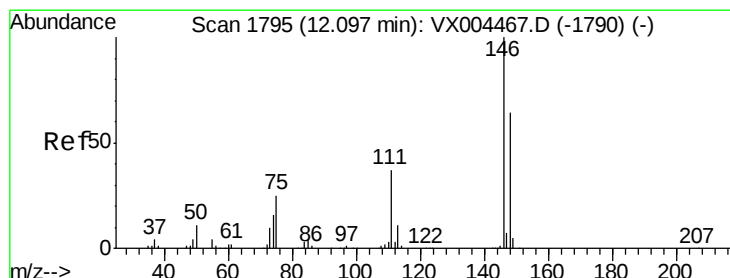
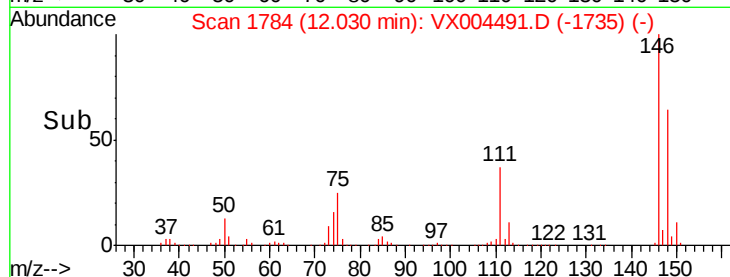
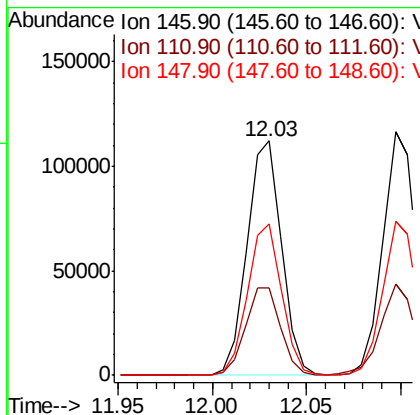
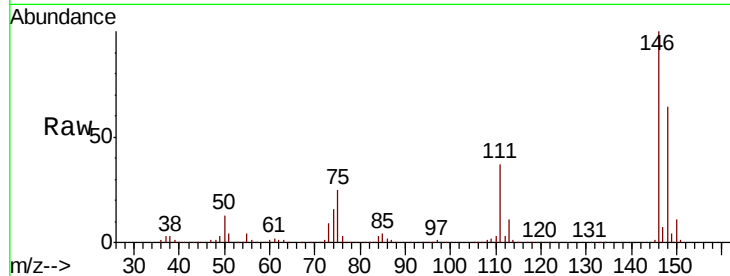
ClientSampled :

VX0912MBS02

Tot Ion:	146	Resp:	142343
Ion Ratio	Lower	Upper	
146	100		
111	38.0	18.7	56.1
148	63.9	32.1	96.5

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#88

1,4-Dichlorobenzene

Concen: 19.77 ug/l

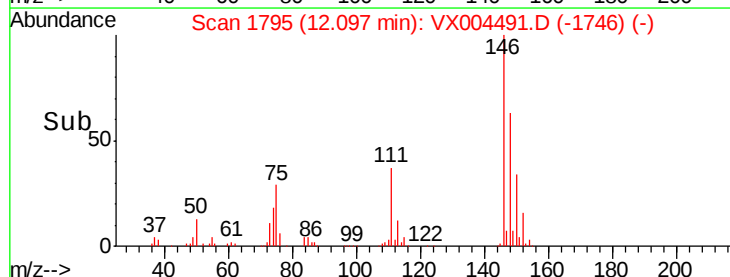
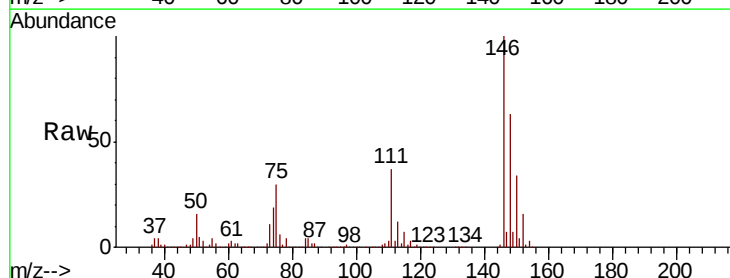
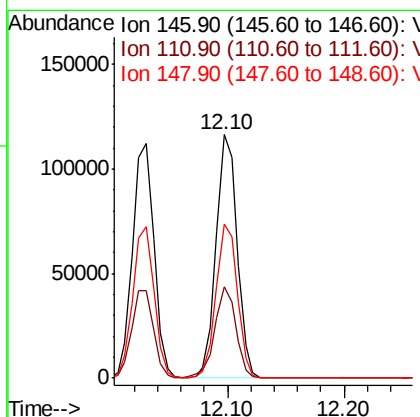
RT: 12.10 min Scan# 1795

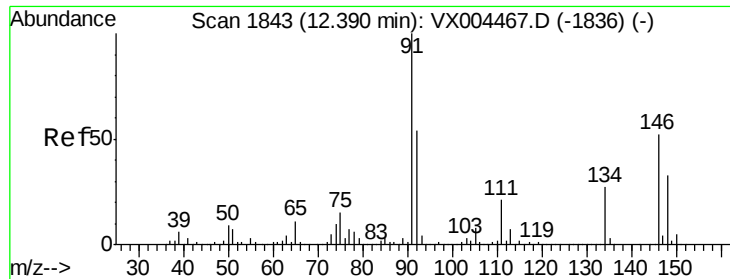
Delta R.T. 0.00 min

Lab File: VX004491.D

Acq: 12 Sep 2018 13:40

Tgt Ion:	146	Resp:	144407
Ion Ratio	Lower	Upper	
146	100		
111	37.5	18.1	54.1
148	64.4	32.0	96.0





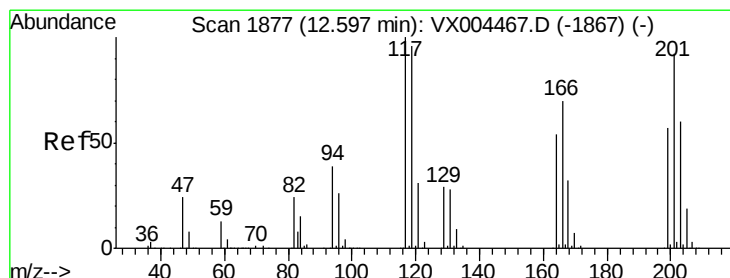
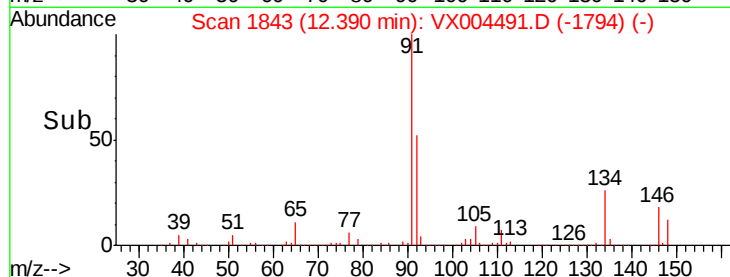
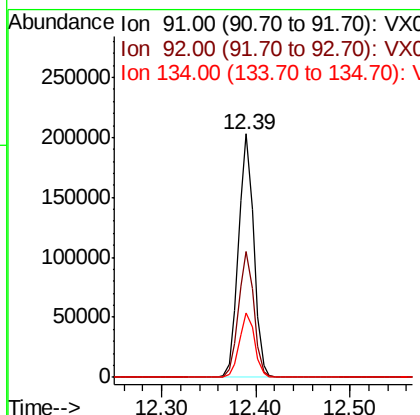
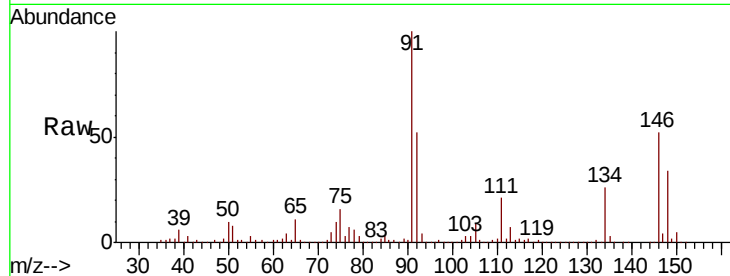
#89
n-Butylbenzene
Concen: 20.38 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		229333		
92	51.7	27.3	81.9		
134	26.3	13.6	40.7		

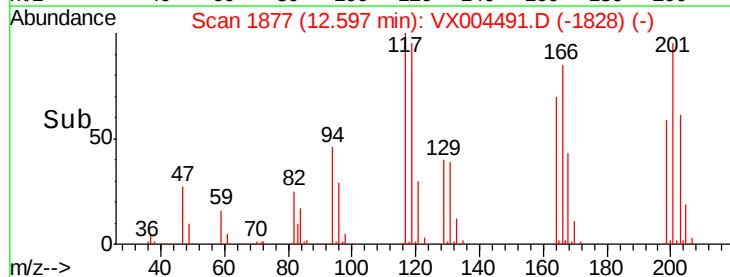
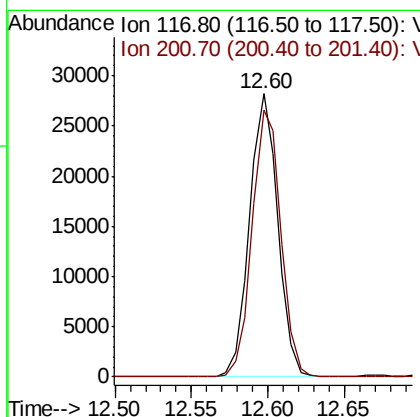
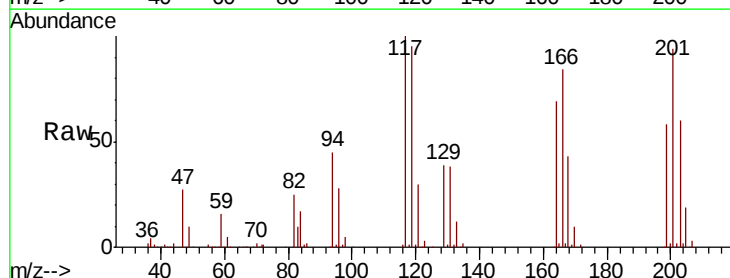
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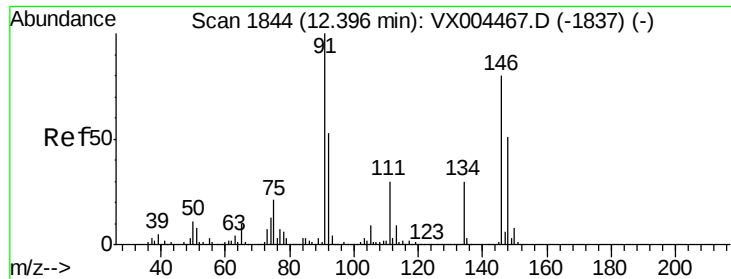
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#90
Hexachloroethane
Concen: 18.32 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		36202		
201	95.7	46.9	140.6		





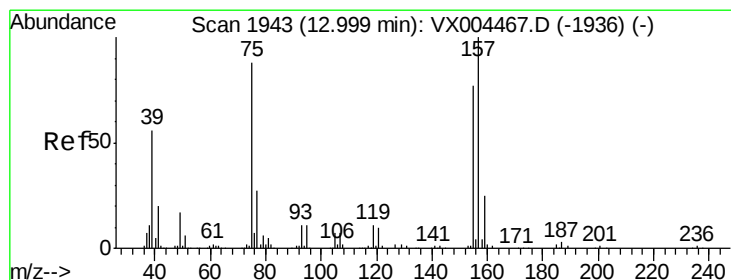
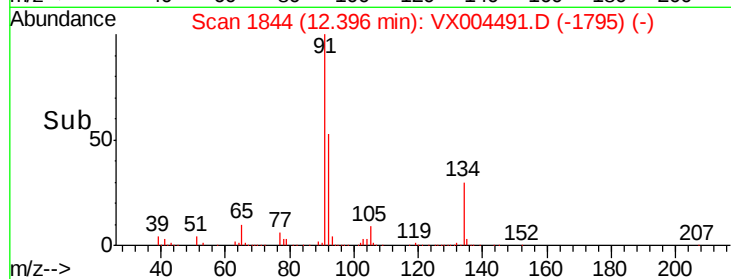
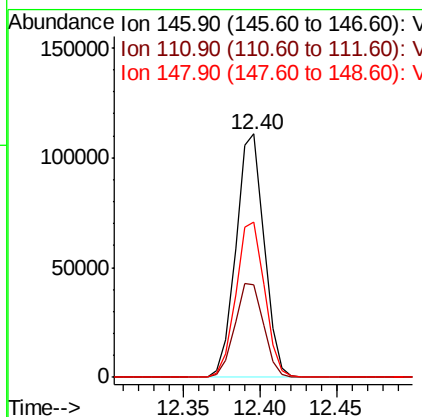
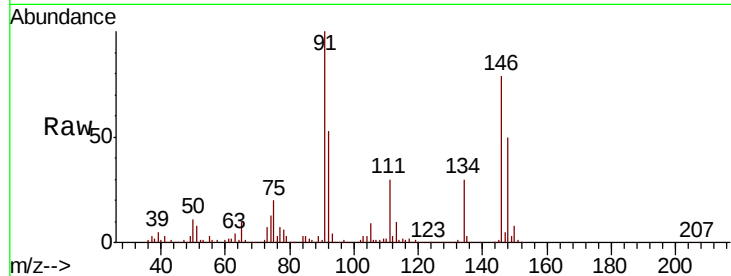
#91
 1,2-Dichlorobenzene
 Concen: 19.76 ug/l
 RT: 12.40 min Scan# 1844
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.4	58.1
148	64.8	32.8	98.3

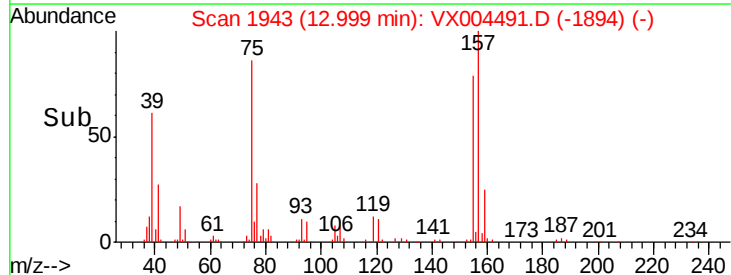
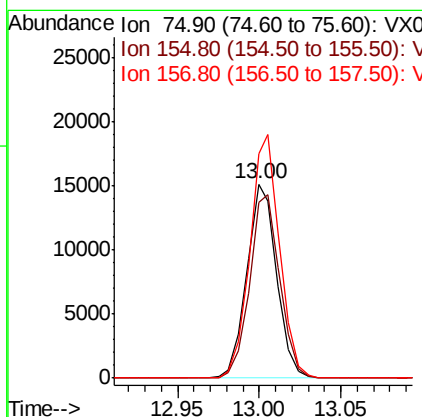
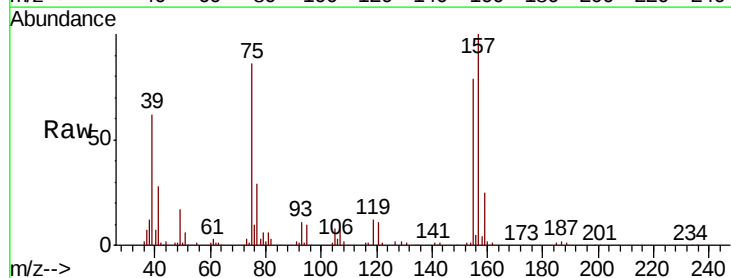
Manual Integrations
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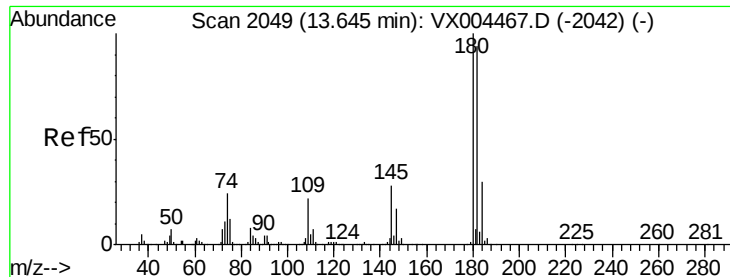
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.44 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.4	48.0	144.2
157	124.1	61.4	184.1





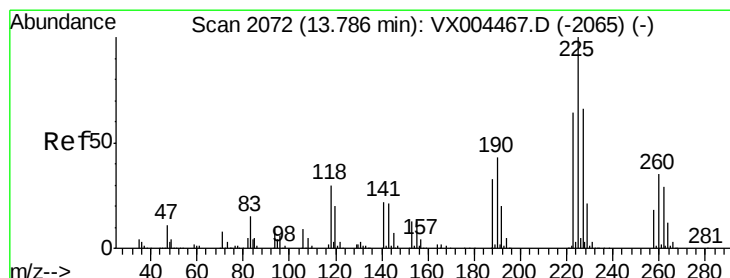
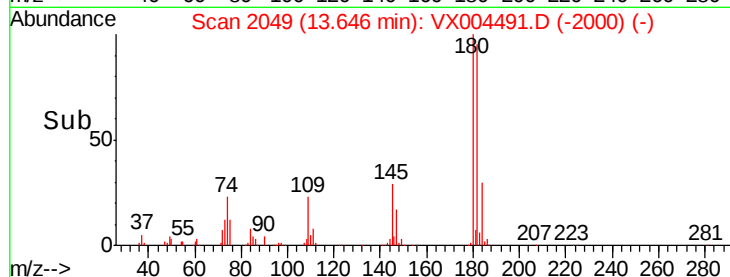
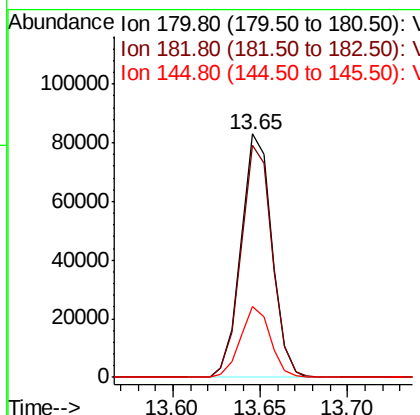
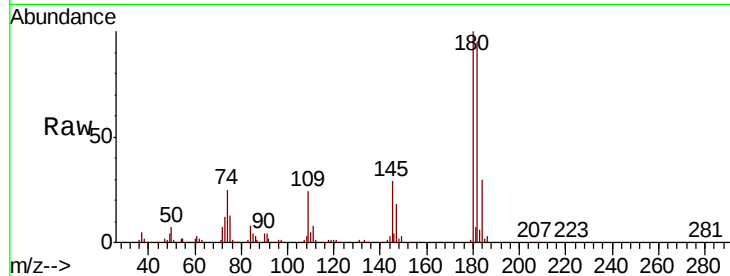
#93
 1,2,4-Trichlorobenzene
 Concen: 20.10 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912MBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	101855		
182	95.9	48.4	145.0	
145	28.5	14.3	42.9	

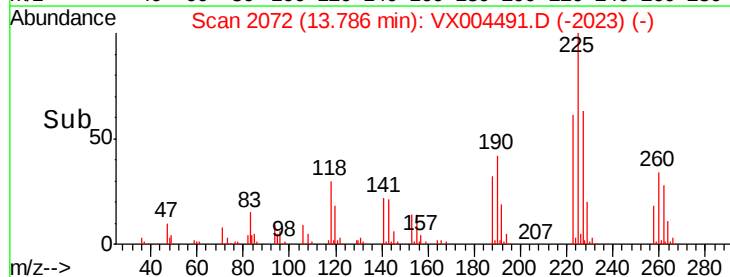
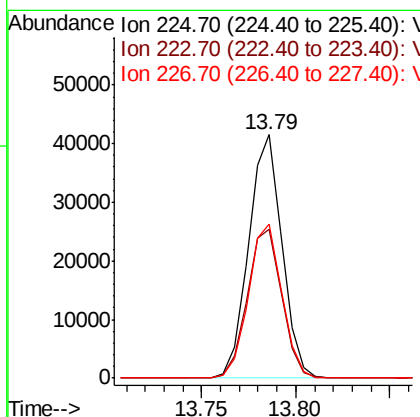
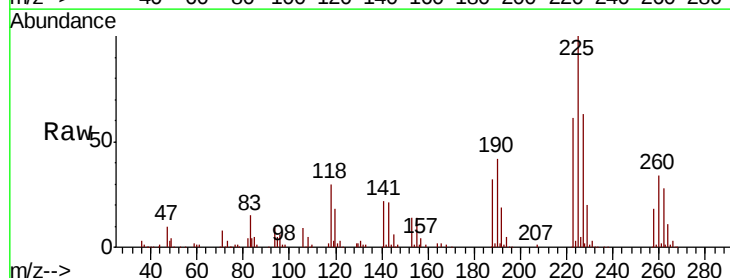
Manual Integrations
 APPROVED

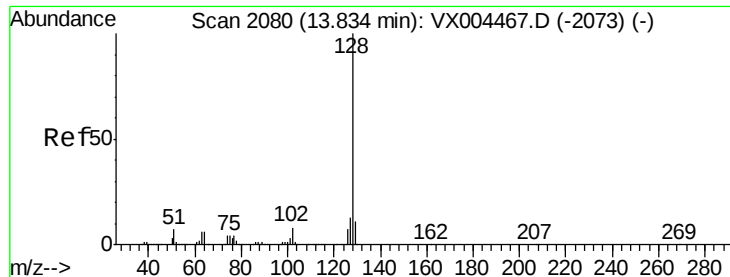
MMDadoda
 9/13/2018 10:58:49 AM



#94
 Hexachlorobutadiene
 Concen: 19.14 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. 0.00 min
 Lab File: VX004491.D
 Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	50666		
223	63.1	30.1	90.5	
227	63.5	30.8	92.4	





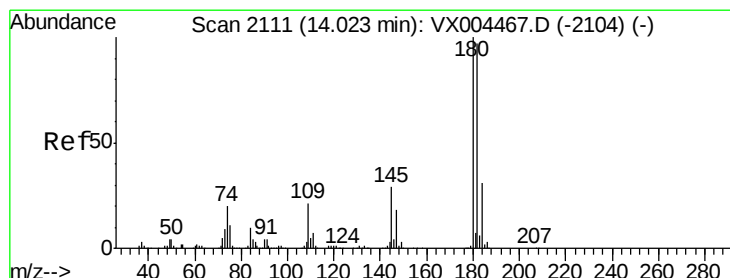
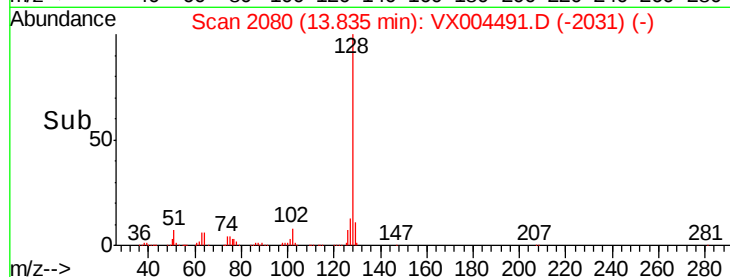
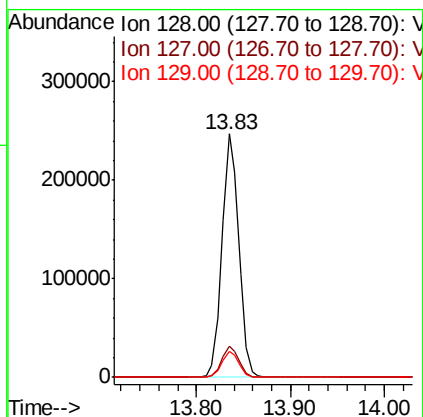
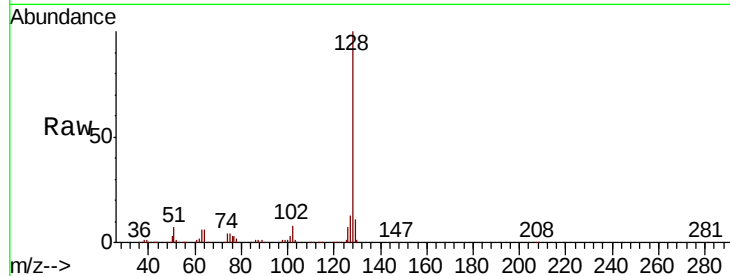
#95
Naphthalene
Concen: 21.46 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Instrument :
MSVOA_X
ClientSampleId :
VX0912MBS02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	304970		
127	12.9		10.2	15.2
129	10.8		8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/13/2018 10:58:49 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.29 ug/l
RT: 14.02 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VX004491.D
Acq: 12 Sep 2018 13:40

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	105606		
182	95.5		48.5	145.6
145	30.2		14.9	44.9

