

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
 Data File : VU033584.D
 Acq On : 03 Aug 2019 11:41
 Operator : JC/SP
 Sample : VSTD10032
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

Quant Time: Aug 05 05:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 05:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	318555	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	314346	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	171576	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	224420	98.03	ug/L	0.00
7) Chloroethane-d5	1.67	69	286182	143.94	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	422529	100.56	ug/L	0.00
21) 2-Butanone-d5	4.16	46	373068	237.51	ug/L	0.00
24) Chloroform-d	4.62	84	424005	107.85	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	262142	105.86	ug/L	0.00
32) Benzene-d6	5.32	84	847761	107.99	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	268302	109.17	ug/L	0.00
41) Toluene-d8	7.55	98	810652	110.36	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	135450	110.86	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	285685	243.37	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	413024	108.26	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	327785	103.56	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	282115	95.571 ug/L	99
3) Chloromethane	1.32	50	284369	95.296 ug/L	100
5) Vinyl chloride	1.39	62	309706	96.669 ug/L	98
6) Bromomethane	1.62	94	217209	76.376 ug/L	99
8) Chloroethane	1.69	64	286915	147.335 ug/L	99
9) Trichlorofluoromethane	1.87	101	409604	97.494 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	208657	97.612 ug/L	100
12) 1,1-Dichloroethene	2.27	96	200640	98.527 ug/L	92
13) Acetone	2.32	43	309069	196.732 ug/L	99
14) Carbon disulfide	2.46	76	578156	91.214 ug/L	99
15) Methyl Acetate	2.60	43	265980	105.704 ug/L	98
16) Methylene chloride	2.68	84	232974	99.489 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	208713	97.686 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	687916	104.897 ug/L	100
19) 1,1-Dichloroethane	3.42	63	403711	100.001 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	244710	101.300 ug/L	99
22) 2-Butanone	4.24	43	424229	225.616 ug/L	99
23) Bromochloromethane	4.52	128	122667	98.129 ug/L	98
25) Chloroform	4.65	83	424466	100.117 ug/L	99
27) 1,2-Dichloroethane	5.38	62	336348	102.721 ug/L	98
29) Cyclohexane	4.97	56	351969	103.935 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	358692	99.897 ug/L	99
31) Carbon tetrachloride	5.11	117	314499	100.326 ug/L	100
33) Benzene	5.37	78	913517	101.572 ug/L	100
34) Trichloroethene	6.16	95	229117	96.695 ug/L	99
35) Methylcyclohexane	6.40	83	375296	101.710 ug/L	99
37) 1,2-Dichloropropane	6.41	63	247016	101.695 ug/L	100
38) Bromodichloromethane	6.74	83	318482	101.847 ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	398379	105.758 ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	748398	221.962 ug/L	100

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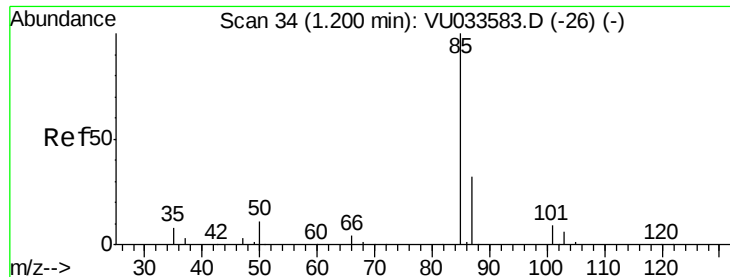
Instrument :
 MSVOA_U
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Quant Time: Aug 05 05:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.62	91	994918	103.075	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	359254	105.934	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	234698	102.255	ug/L	99
46) Tetrachloroethene	8.21	164	190218	98.752	ug/L	98
48) 2-Hexanone	8.35	43	619669	228.240	ug/L	99
49) Dibromochloromethane	8.46	129	268562	103.037	ug/L	100
50) 1,2-Dibromoethane	8.57	107	256738	101.591	ug/L	100
51) Chlorobenzene	9.10	112	630741	99.874	ug/L	100
52) Ethylbenzene	9.23	91	1088773	104.751	ug/L	100
53) m,p-Xylene	9.36	106	420204	105.031	ug/L	99
54) o-xylene	9.76	106	415471	107.658	ug/L	99
55) Styrene	9.77	104	714699	108.954	ug/L	99
56) Isopropylbenzene	10.15	105	1076760	106.543	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	425099	102.494	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	329347	102.736	ug/L	98
61) Bromoform	9.94	173	212167	103.150	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	525968	100.747	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	529088	97.393	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	532602	100.874	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	104283	105.323	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	410354	97.879	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	372098	104.093	ug/L	99
69) Naphthalene	13.73	128	1137473	110.678	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	385620	102.615	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 95.571 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

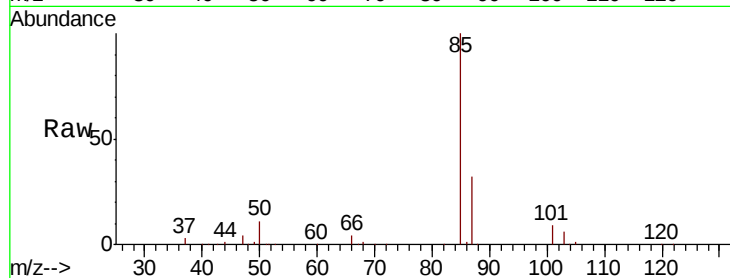
VSTD10032

Tgt Ion: 85 Resp: 282115

Ion Ratio Lower Upper

85 100

87 31.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU033583.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033583.D (-26) (-)

1.20

250000

200000

150000

100000

50000

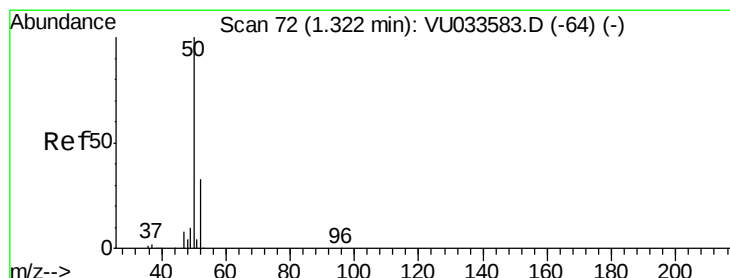
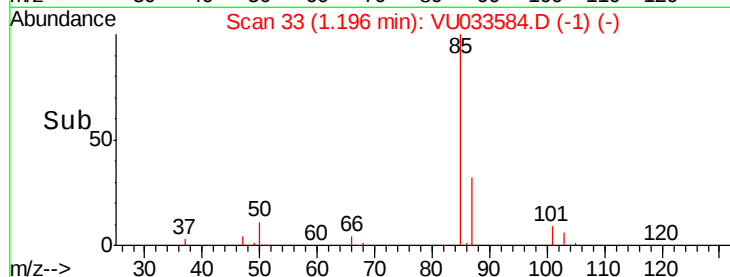
0

Time-->

1.15

1.20

1.25



#3

Chloromethane

Concen: 95.296 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033584.D

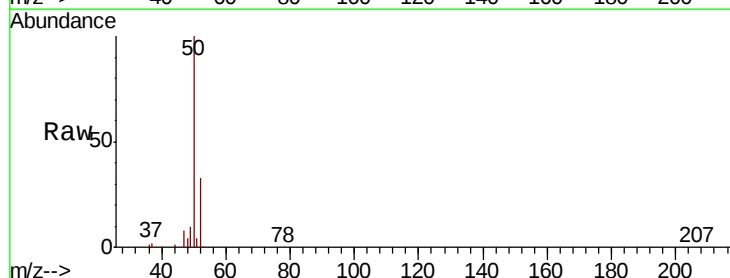
Acq: 03 Aug 2019 11:41

Tgt Ion: 50 Resp: 284369

Ion Ratio Lower Upper

50 100

52 33.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033583.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033583.D (-64) (-)

1.32

300000

250000

200000

150000

100000

50000

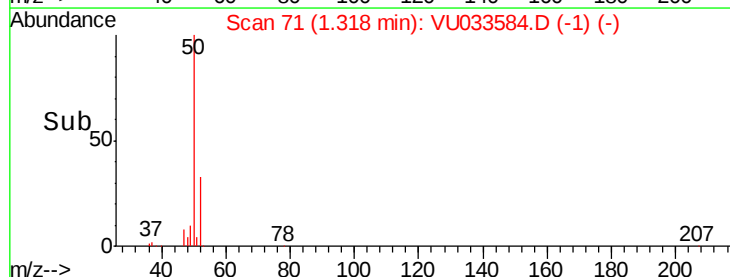
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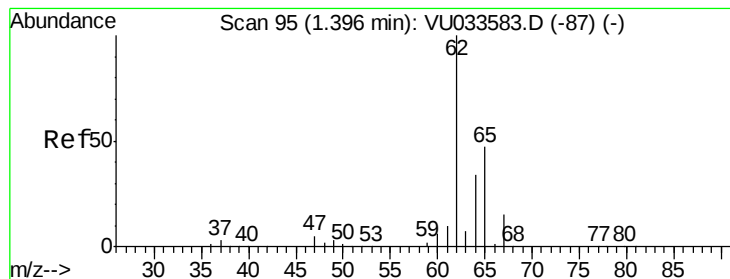
Time-->

1.30

1.35

1.40





#5

Vinyl chloride

Concen: 96.669 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

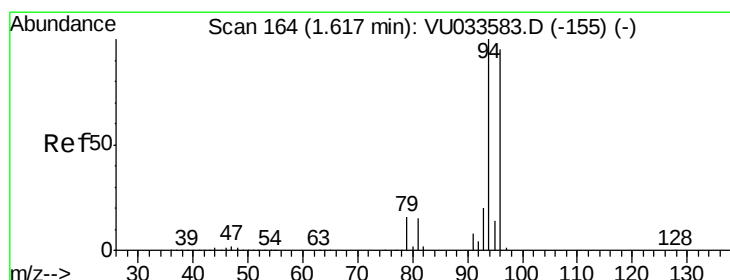
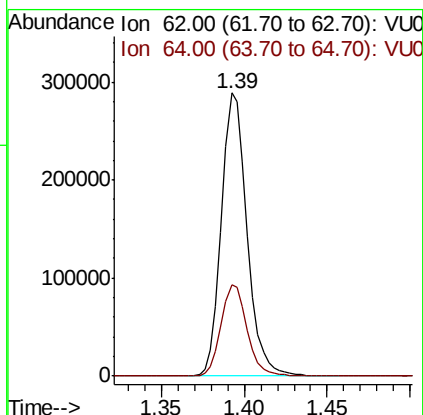
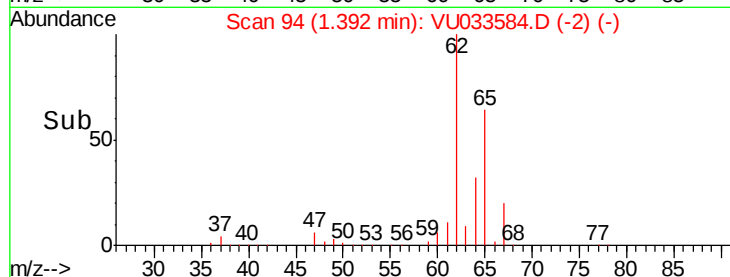
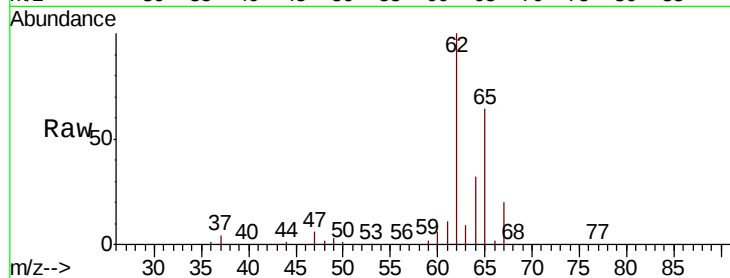
VSTD10032

Tgt Ion: 62 Resp: 309706

Ion Ratio Lower Upper

62 100

64 32.5 23.5 43.7



#6

Bromomethane

Concen: 76.376 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033584.D

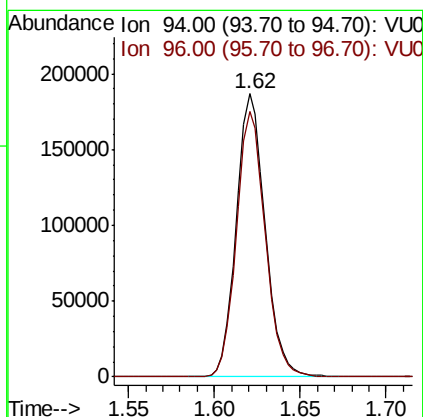
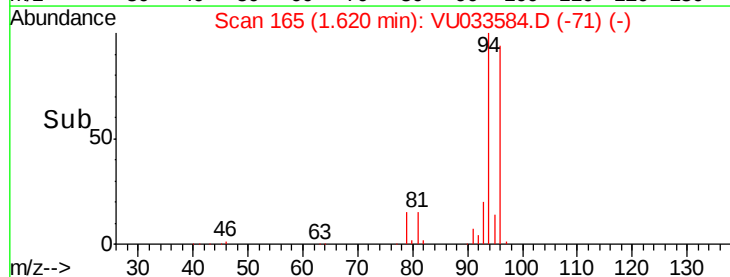
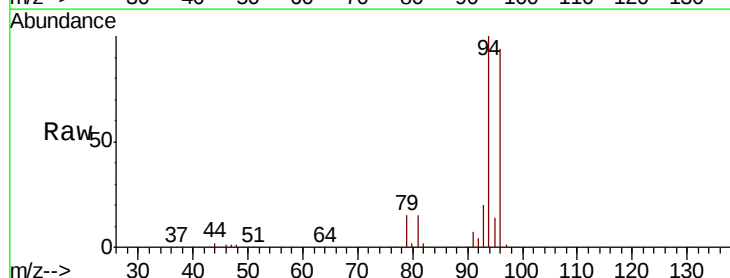
Acq: 03 Aug 2019 11:41

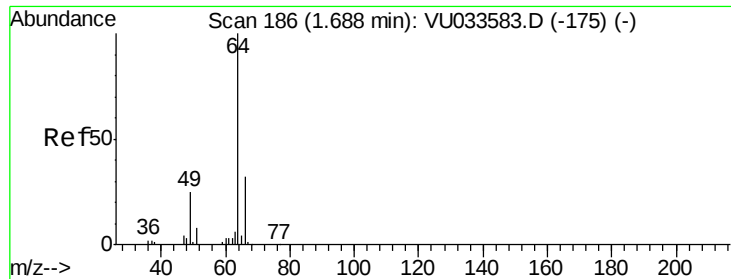
Tgt Ion: 94 Resp: 217209

Ion Ratio Lower Upper

94 100

96 94.0 66.2 123.0





#8

Chloroethane

Concen: 147.335 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

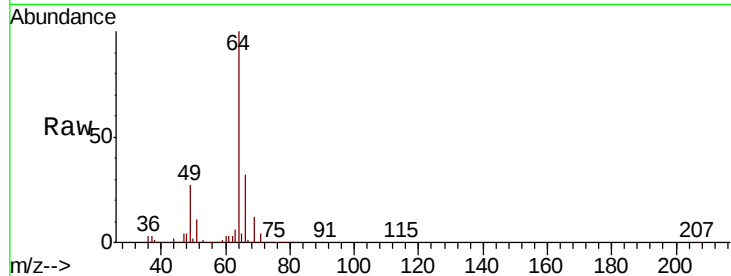
VSTD10032

Tgt Ion: 64 Resp: 286915

Ion Ratio Lower Upper

64 100

66 31.7 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VU033583.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033583.D (-175) (-)

1.69

250000

200000

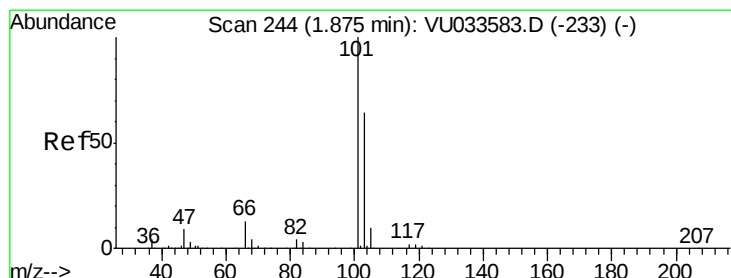
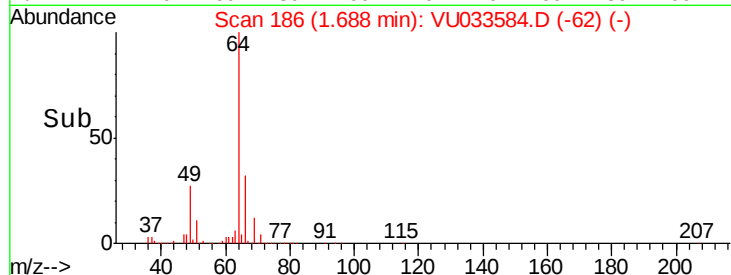
150000

100000

50000

0

Time--> 1.60 1.65 1.70 1.75 1.80



#9

Trichlorofluoromethane

Concen: 97.494 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033584.D

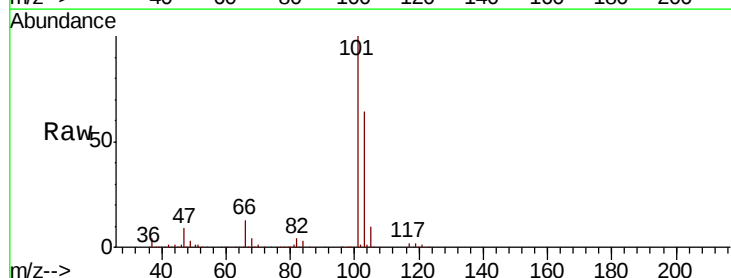
Acq: 03 Aug 2019 11:41

Tgt Ion: 101 Resp: 409604

Ion Ratio Lower Upper

101 100

103 64.9 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU033583.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033583.D (-233) (-)

1.87

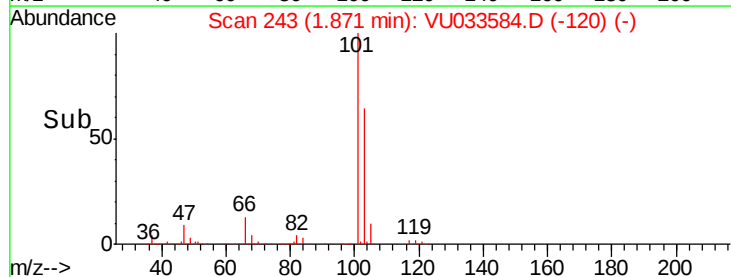
300000

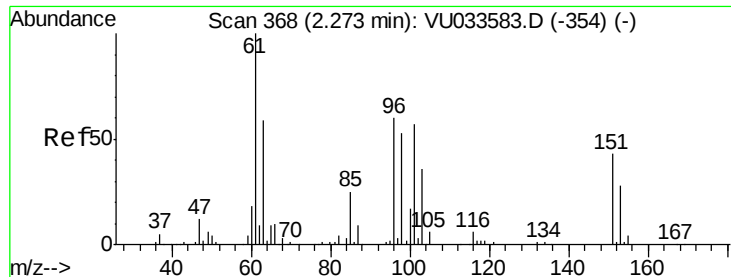
200000

100000

0

Time--> 1.80 1.85 1.90 1.95





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 97.612 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

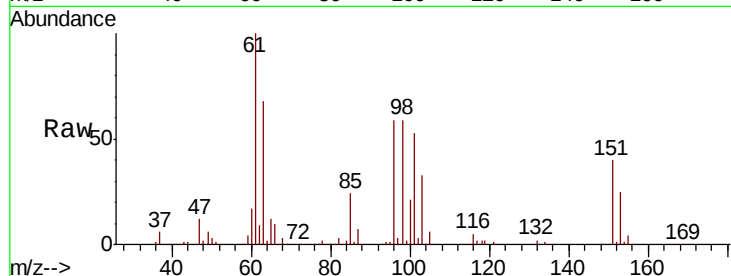
Tgt Ion: 101 Resp: 208657

Ion Ratio Lower Upper

101 100

85 44.1 35.5 53.3

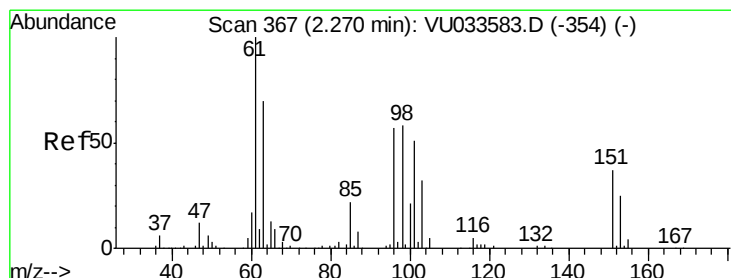
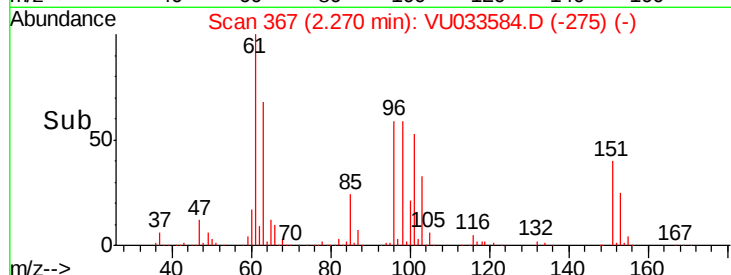
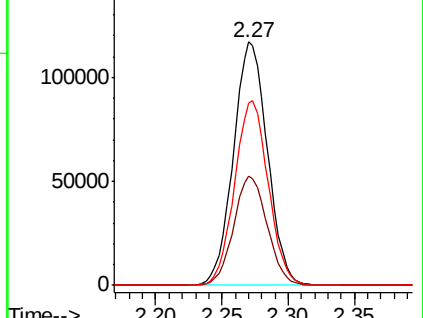
151 75.1 59.9 89.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 98.527 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

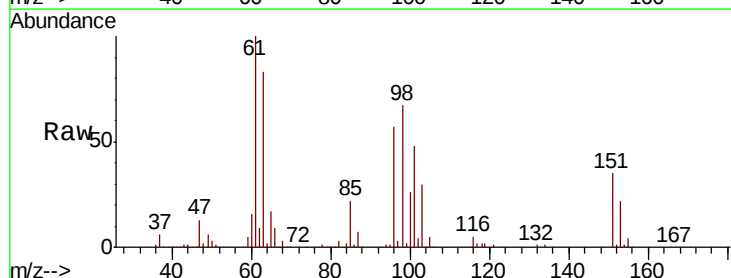
Tgt Ion: 96 Resp: 200640

Ion Ratio Lower Upper

96 100

61 174.8 122.8 228.0

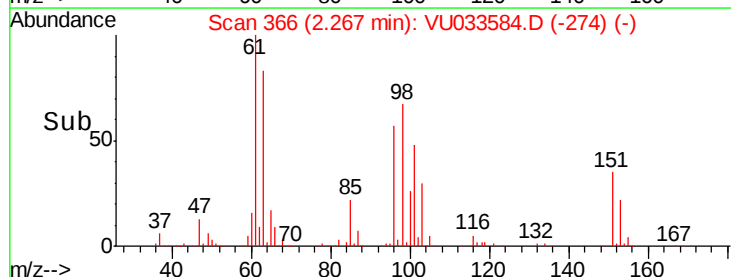
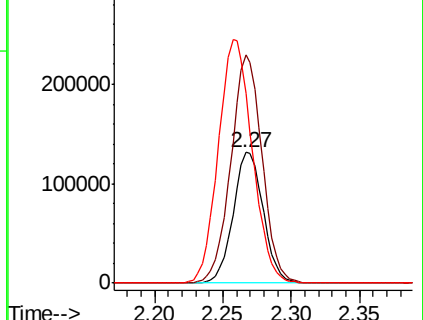
63 145.7 87.1 161.7

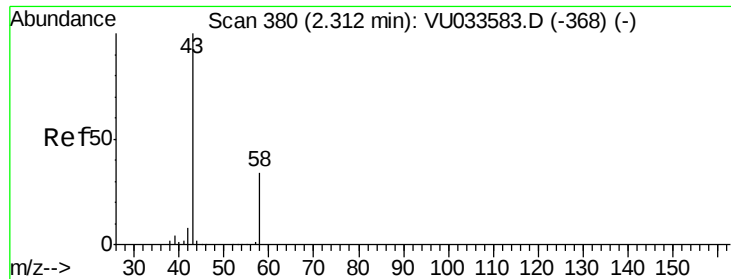


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 196.732 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

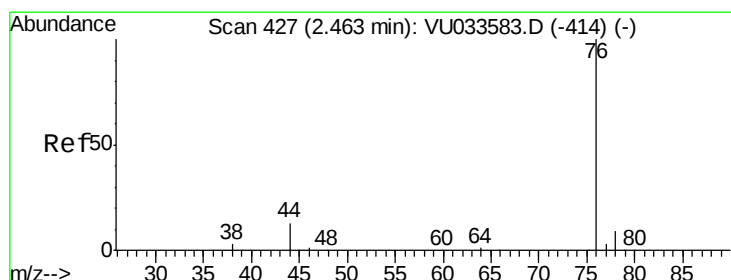
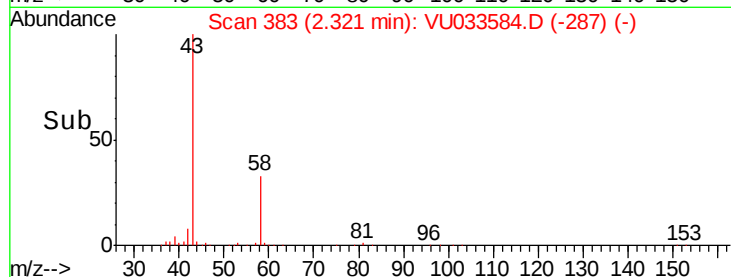
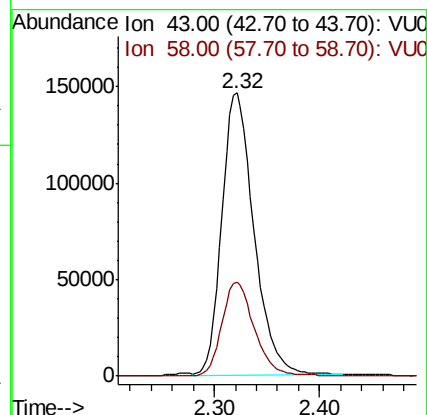
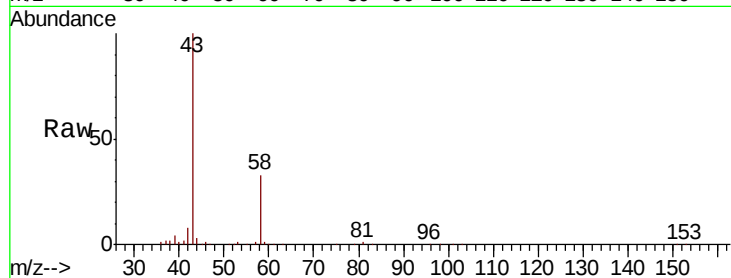
VSTD10032

Tgt Ion: 43 Resp: 309069

Ion Ratio Lower Upper

43 100

58 33.6 0.0 66.0



#14

Carbon disulfide

Concen: 91.214 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033584.D

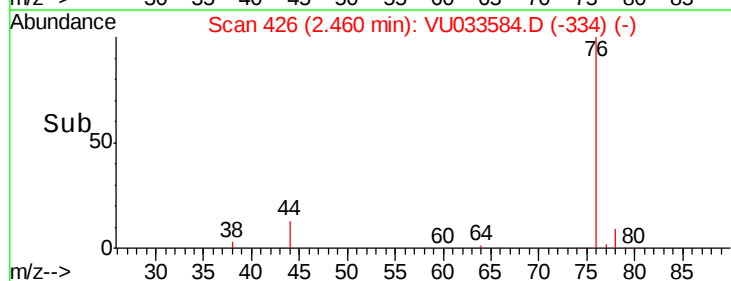
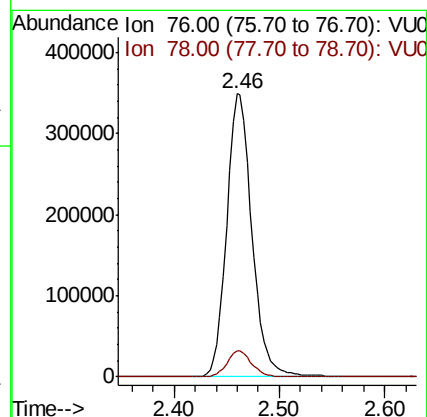
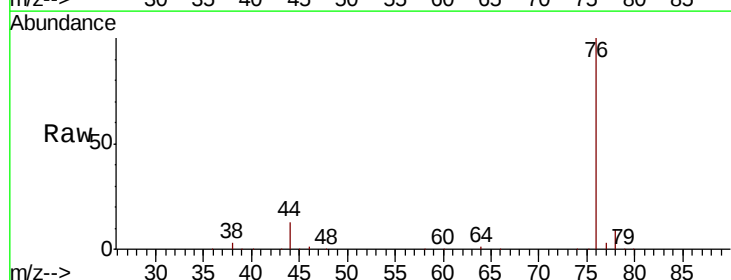
Acq: 03 Aug 2019 11:41

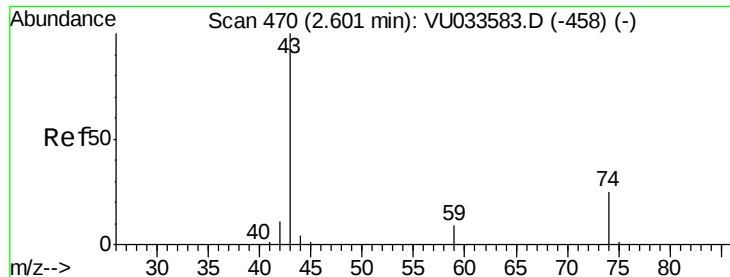
Tgt Ion: 76 Resp: 578156

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3





#15

Methyl Acetate

Concen: 105.704 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

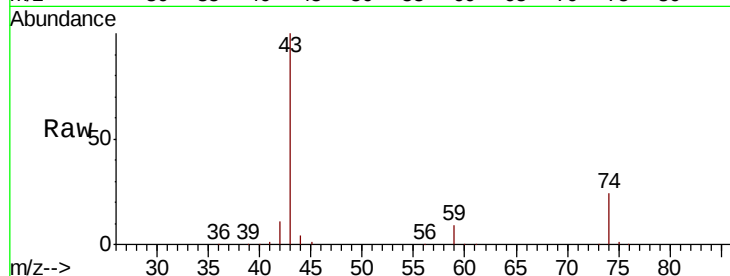
VSTD10032

Tgt Ion: 43 Resp: 265980

Ion Ratio Lower Upper

43 100

74 24.1 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VU033584.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033584.D (-377) (-)

2.60

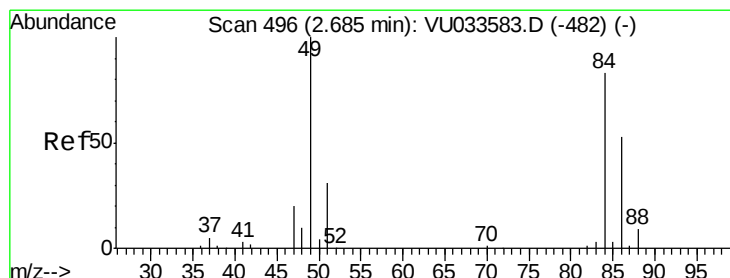
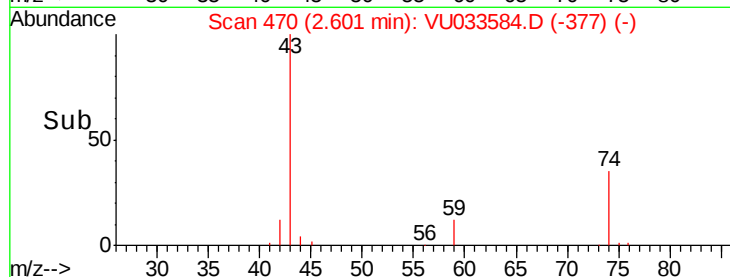
150000

100000

50000

0

Time--> 2.50 2.60 2.70



#16

Methylene chloride

Concen: 99.489 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

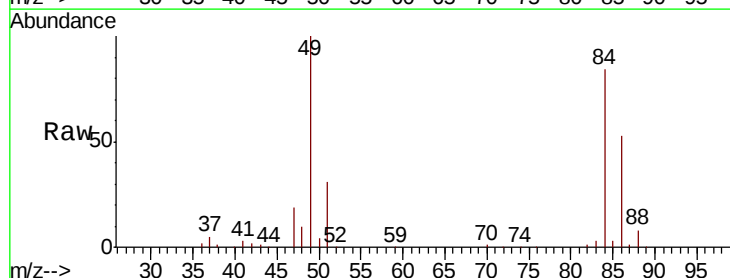
Tgt Ion: 84 Resp: 232974

Ion Ratio Lower Upper

84 100

86 63.0 44.5 82.7

49 119.0 84.2 156.4



Abundance Ion 84.00 (83.70 to 84.70): VU033584.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033584.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033584.D (-403) (-)

2.68

200000

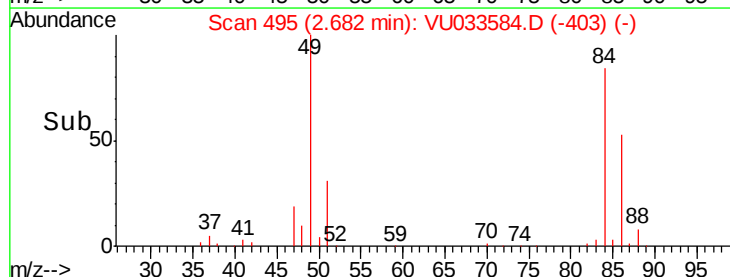
150000

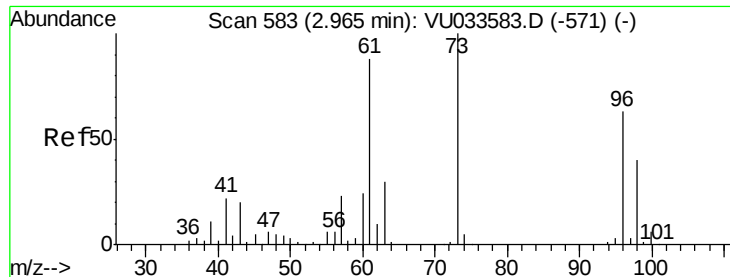
100000

50000

0

Time--> 2.60 2.70 2.80





#17

trans-1,2-Dichloroethene

Concen: 97.686 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

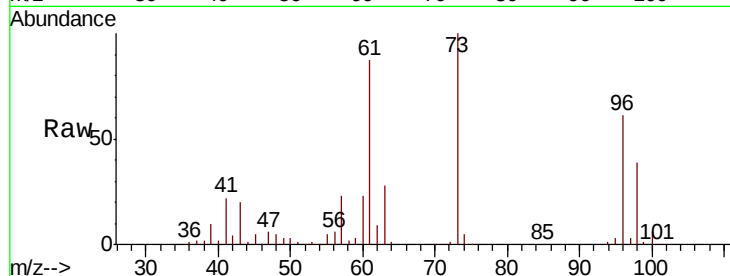
Tgt Ion: 96 Resp: 208713

Ion Ratio Lower Upper

96 100

61 143.0 98.1 182.3

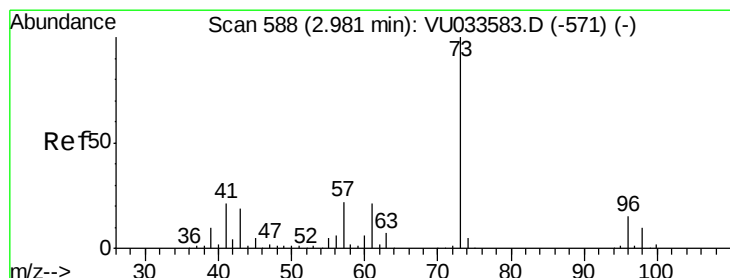
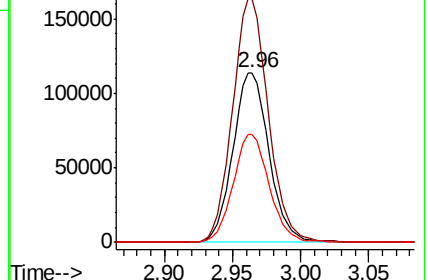
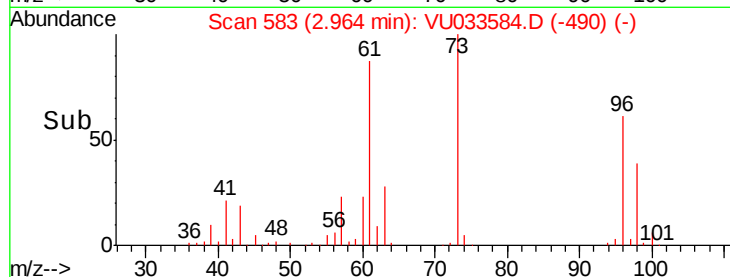
98 63.9 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU033583.D (-571) (-)

Ion 61.00 (60.70 to 61.70): VU033583.D (-571) (-)

Ion 98.00 (97.70 to 98.70): VU033583.D (-571) (-)



#18

Methyl tert-butyl Ether

Concen: 104.897 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

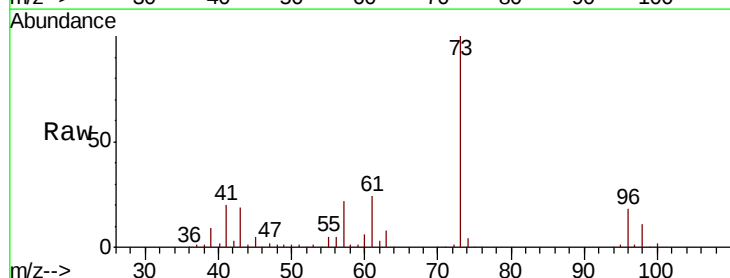
Tgt Ion: 73 Resp: 687916

Ion Ratio Lower Upper

73 100

43 19.1 15.5 23.3

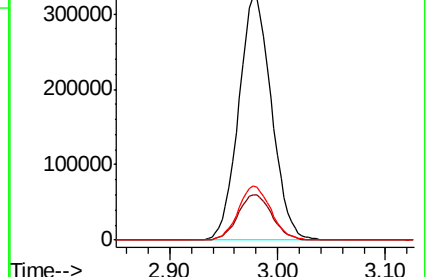
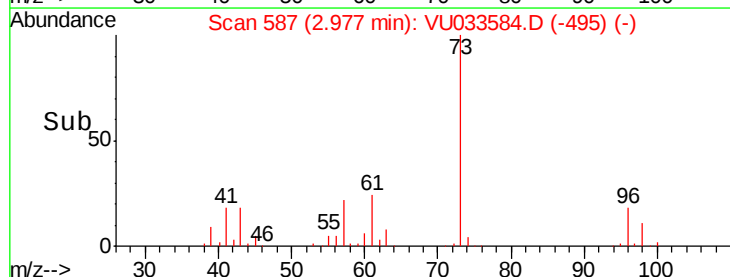
57 22.2 17.8 26.6

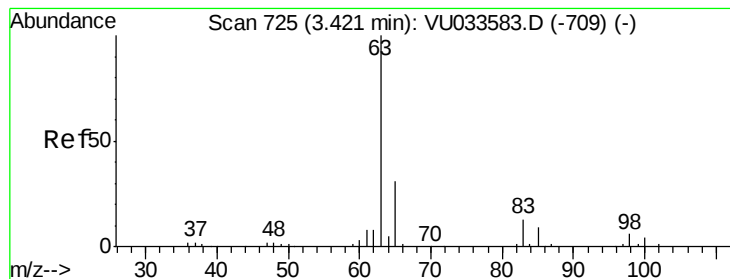


Abundance Ion 73.00 (72.70 to 73.70): VU033583.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033583.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033583.D (-571) (-)





#19

1,1-Dichloroethane

Concen: 100.001 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

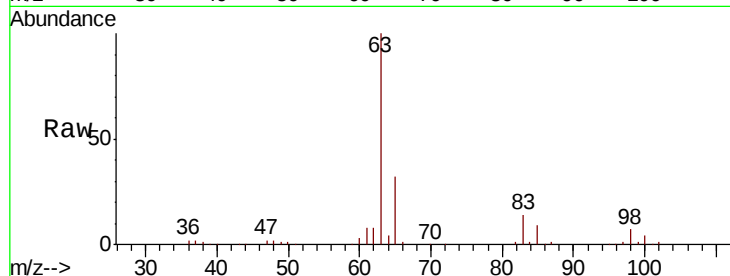
Tgt Ion: 63 Resp: 403711

Ion Ratio Lower Upper

63 100

65 32.1 22.0 40.8

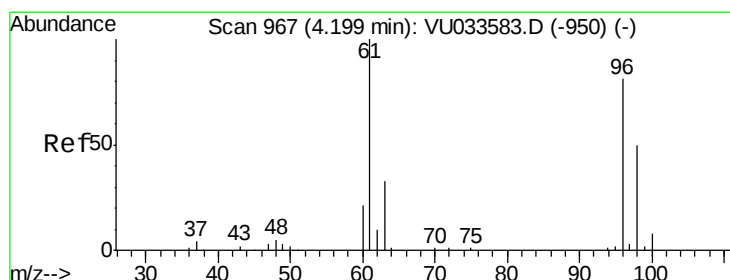
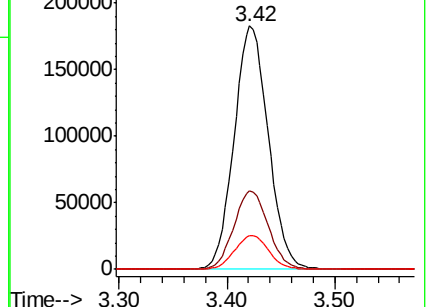
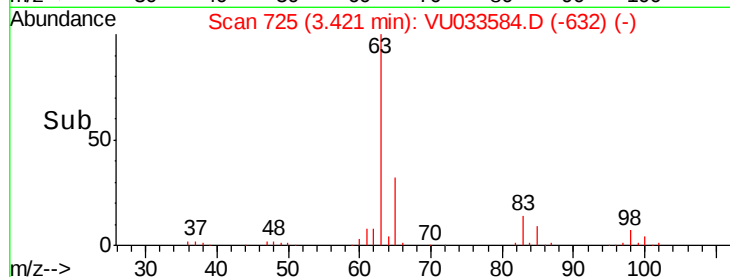
83 13.9 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU033584.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033584.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033584.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 101.300 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

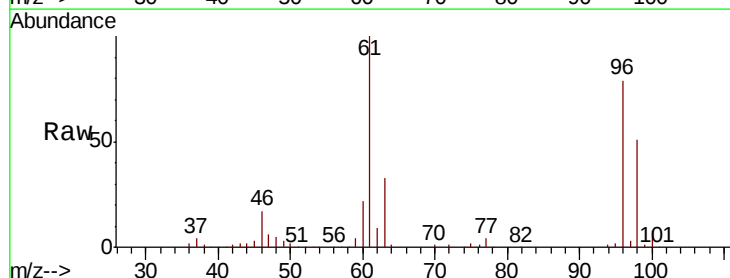
Tgt Ion: 96 Resp: 244710

Ion Ratio Lower Upper

96 100

61 125.9 87.4 162.4

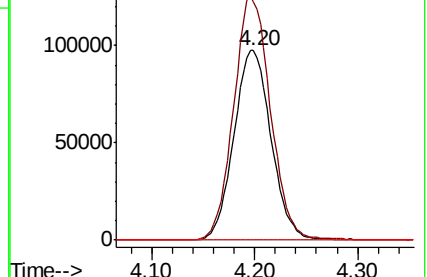
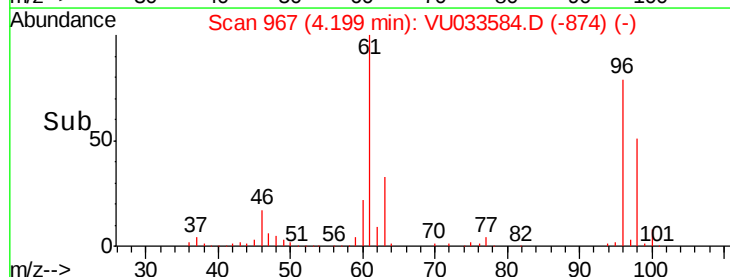
68 0.0 0.0 0.0

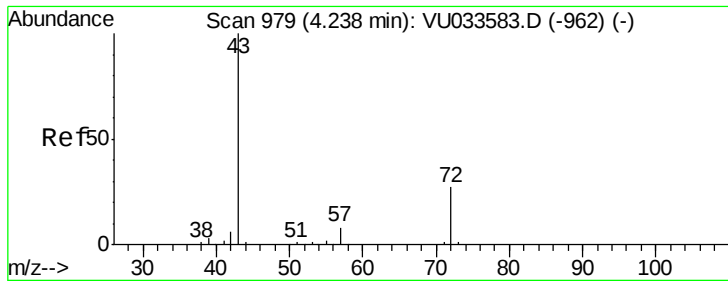


Abundance Ion 96.00 (95.70 to 96.70): VU033584.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033584.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033584.D (-874) (-)





#22

2-Butanone

Concen: 225.616 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

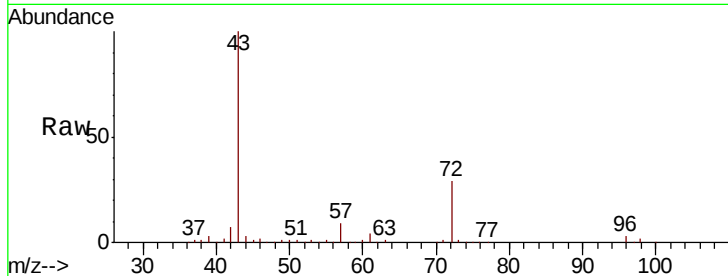
VSTD10032

Tgt Ion: 43 Resp: 424229

Ion Ratio Lower Upper

43 100

72 28.6 14.4 43.4



Abundance Ion 43.00 (42.70 to 43.70): VU033584.D (-986) (-)

Ion 72.00 (71.70 to 72.70): VU033584.D (-986) (-)

4.24

150000

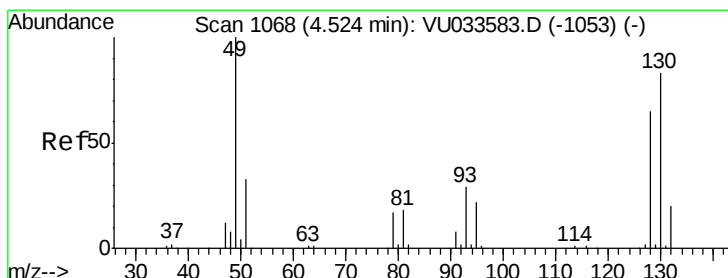
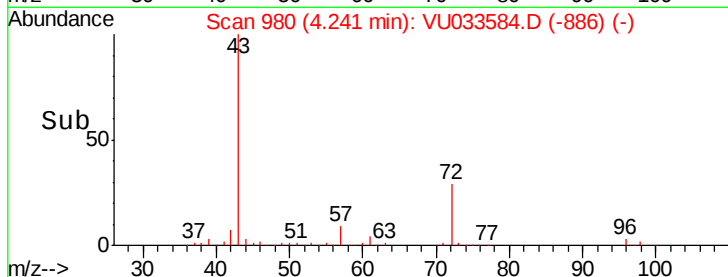
100000

50000

0

4.10 4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 98.129 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Tgt Ion: 128 Resp: 122667

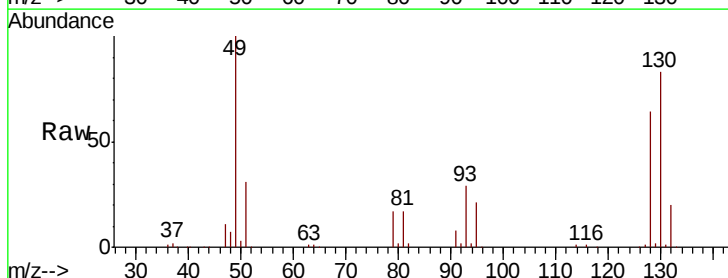
Ion Ratio Lower Upper

128 100

49 157.1 107.9 200.3

130 130.0 89.5 166.1

51 48.0 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033584.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VU033584.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VU033584.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VU033584.D (-975) (-)

120000

100000

80000

60000

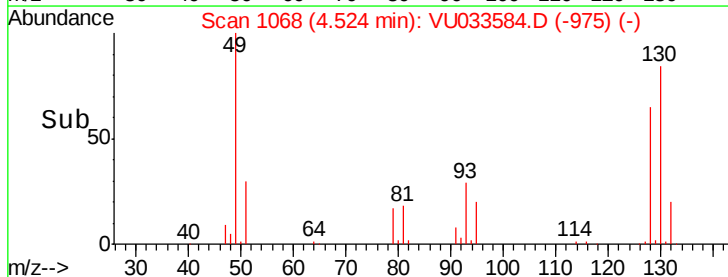
40000

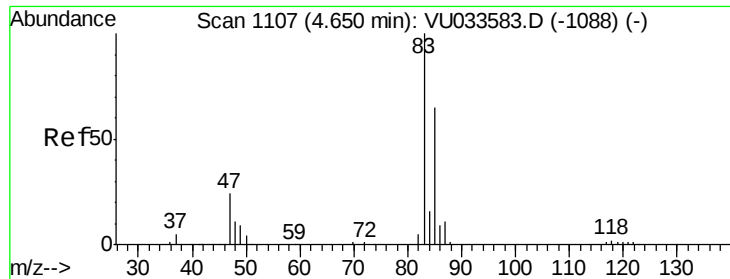
20000

0

4.50 4.52 4.60

Time-->

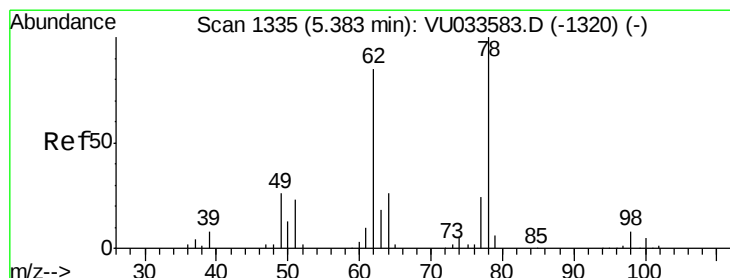
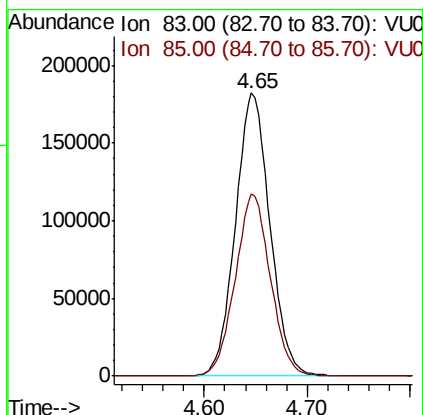
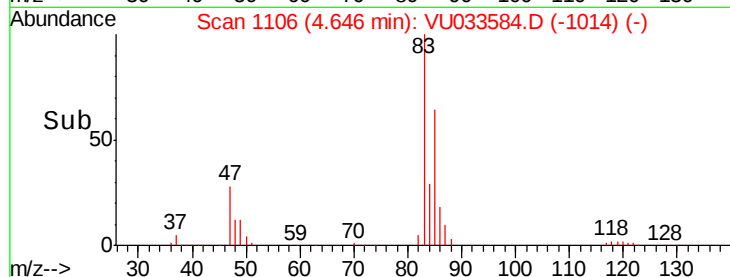
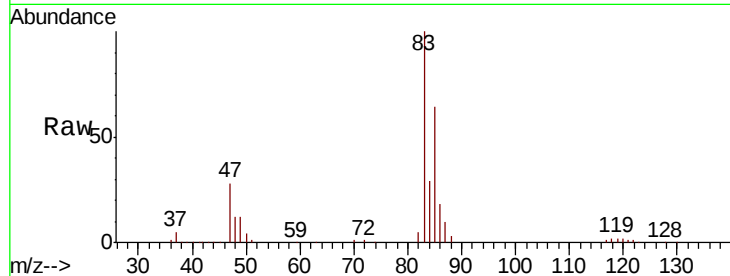




#25
Chloroform
Concen: 100.117 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

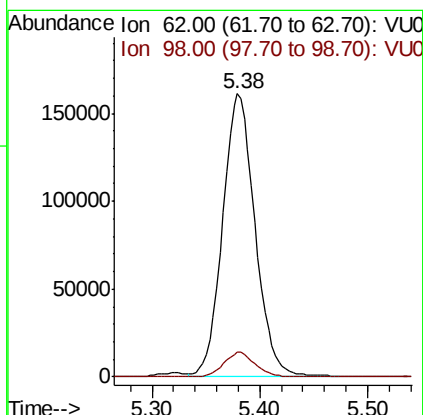
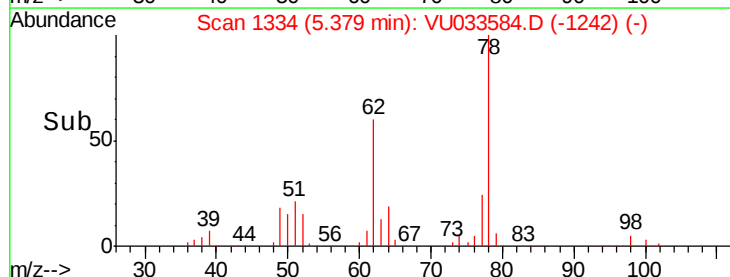
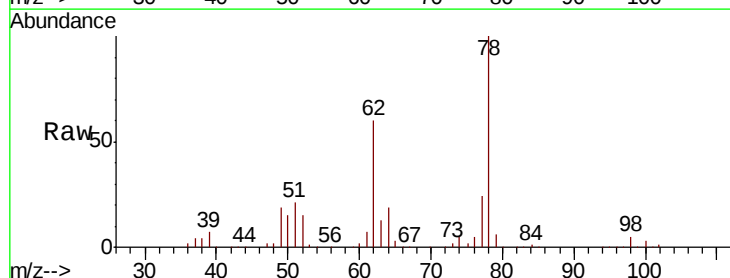
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

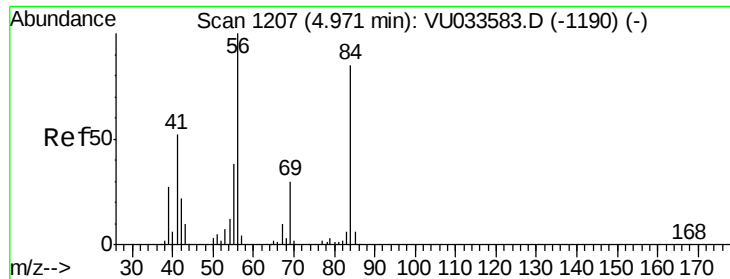
Tgt Ion: 83 Resp: 424466
Ion Ratio Lower Upper
83 100
85 64.3 45.6 84.8



#27
1,2-Dichloroethane
Concen: 102.721 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

Tgt Ion: 62 Resp: 336348
Ion Ratio Lower Upper
62 100
98 8.6 7.4 11.0

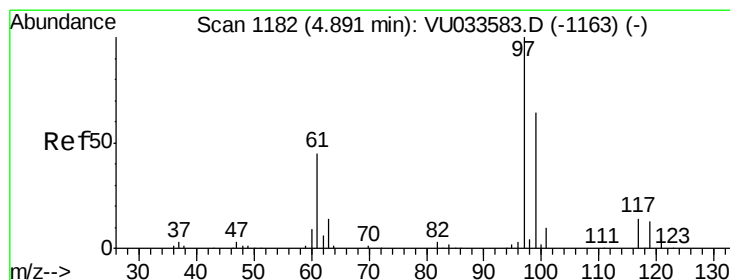
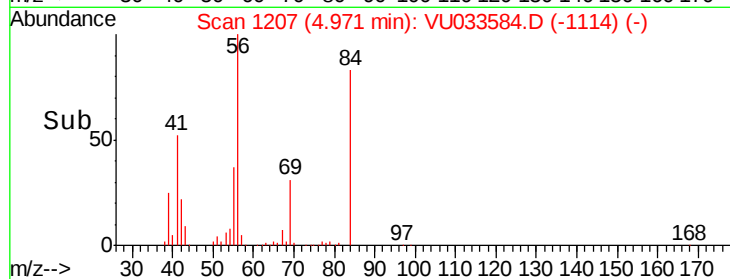
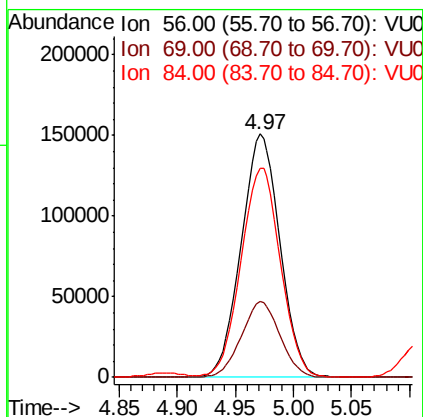
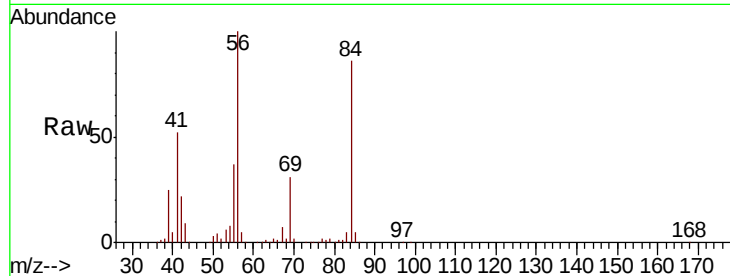




#29
Cyclohexane
Concen: 103.935 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

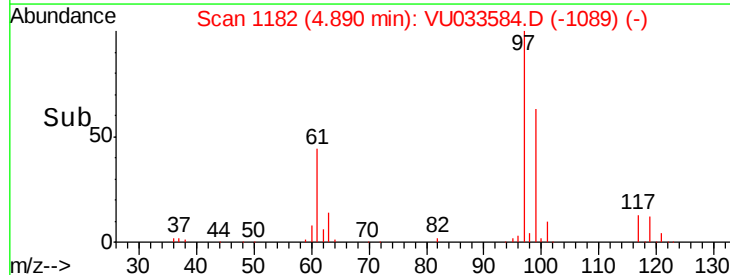
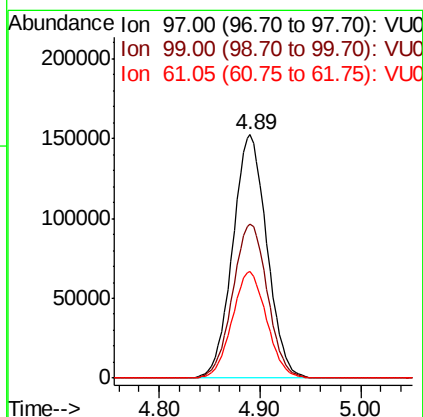
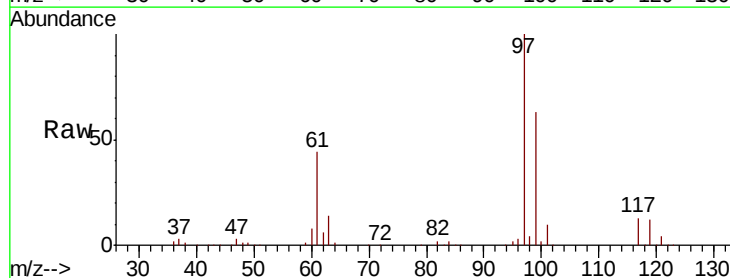
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

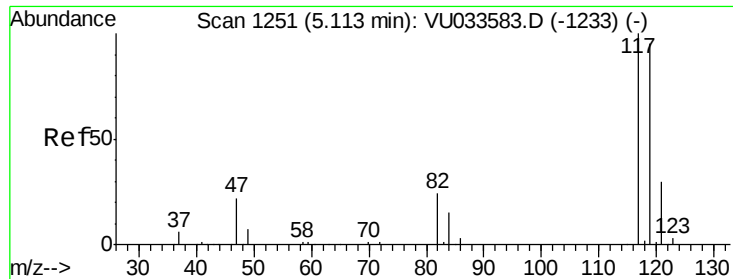
Tgt Ion: 56 Resp: 351969
Ion Ratio Lower Upper
56 100
69 31.0 24.6 36.8
84 87.7 69.8 104.6



#30
1,1,1-Trichloroethane
Concen: 99.897 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

Tgt Ion: 97 Resp: 358692
Ion Ratio Lower Upper
97 100
99 64.6 51.5 77.3
61 44.3 36.1 54.1

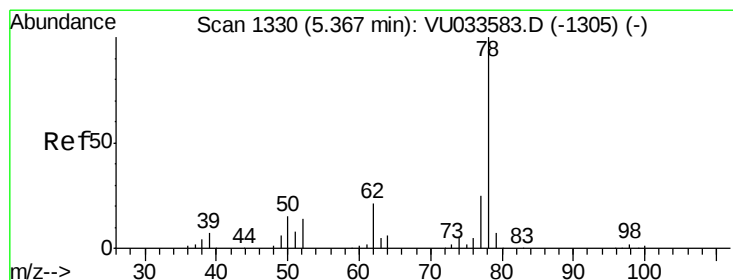
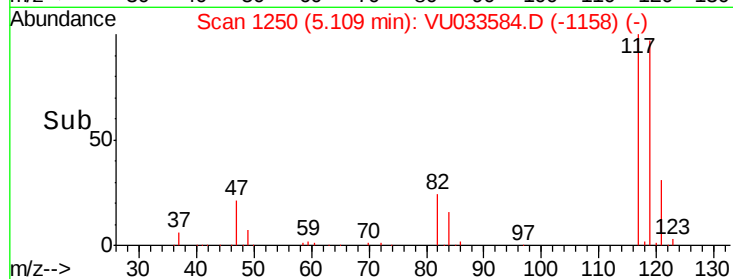
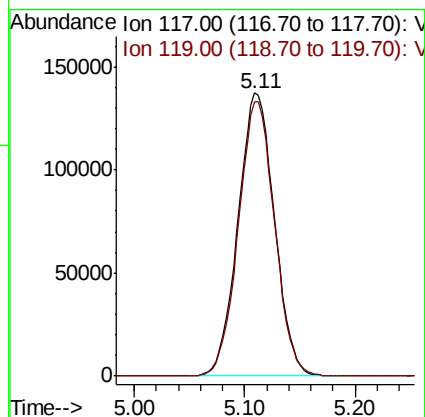
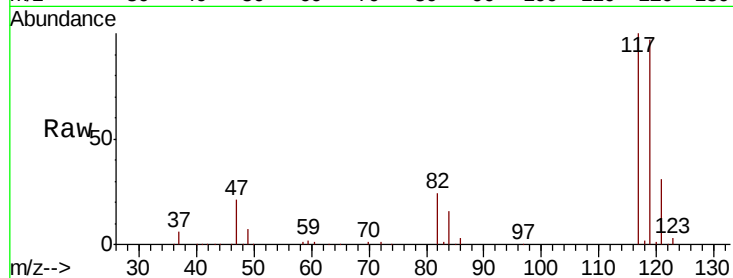




#31
Carbon tetrachloride
Concen: 100.326 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

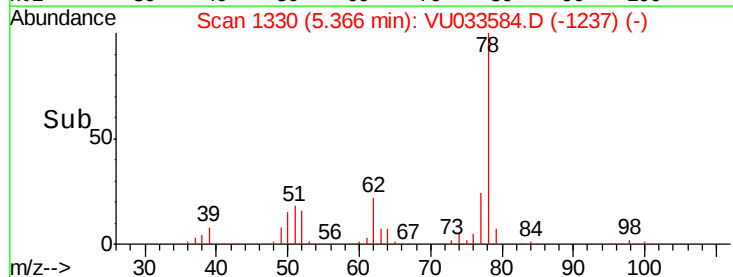
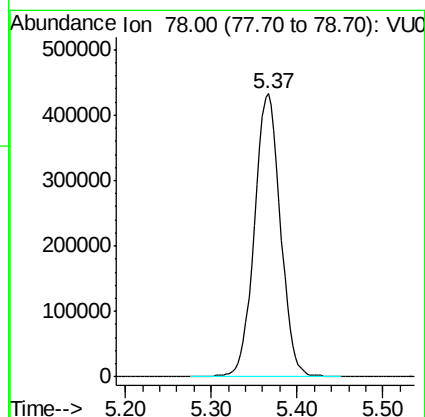
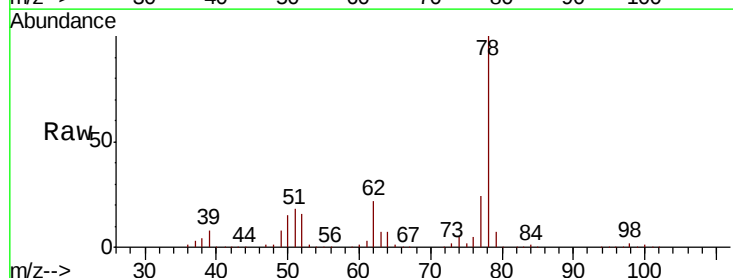
Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

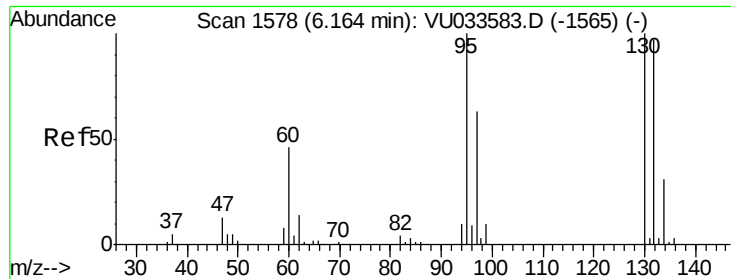
Tgt Ion:117 Resp: 314499
Ion Ratio Lower Upper
117 100
119 96.3 76.9 115.3



#33
Benzene
Concen: 101.572 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

Tgt Ion: 78 Resp: 913517

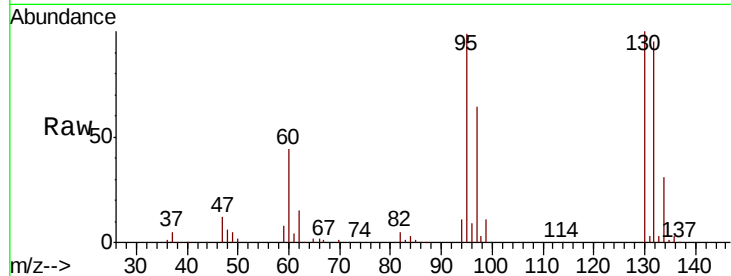




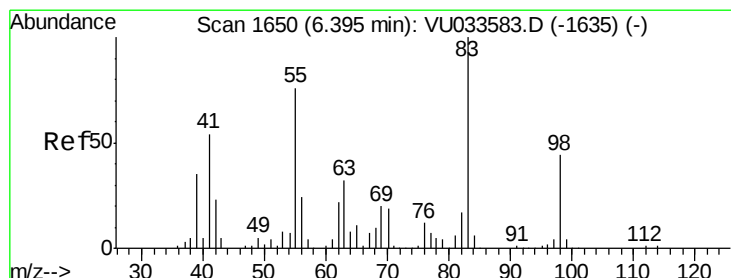
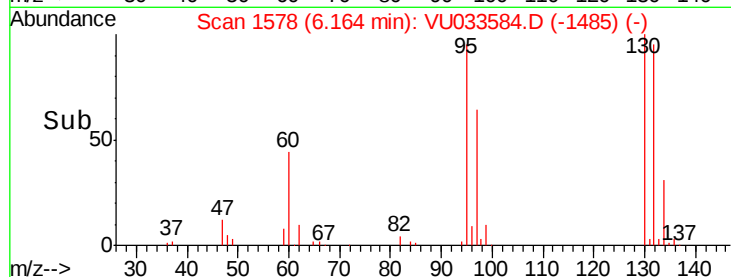
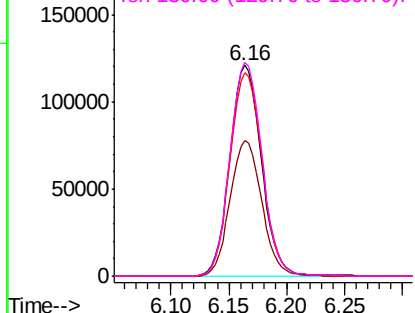
#34
 Trichloroethene
 Concen: 96.695 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

Tgt Ion: 95 Resp: 229117
 Ion Ratio Lower Upper
 95 100
 97 64.4 44.2 82.2
 132 96.1 68.3 126.8
 130 101.2 70.1 130.3

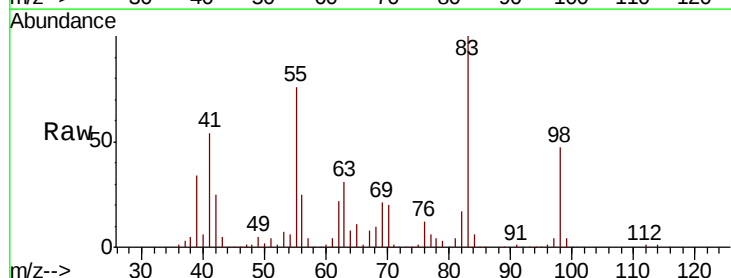


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

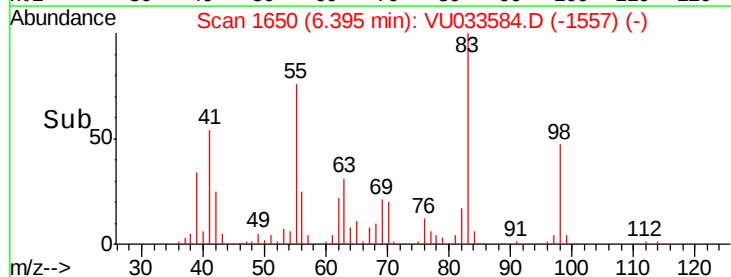
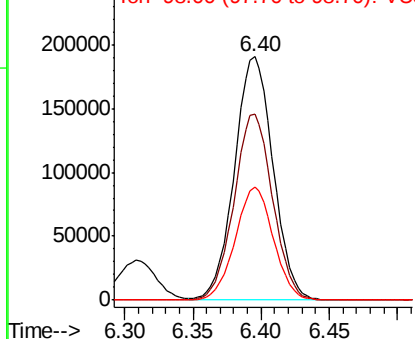


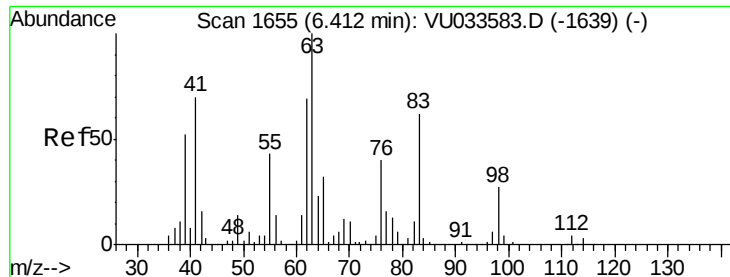
#35
 Methylcyclohexane
 Concen: 101.710 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion: 83 Resp: 375296
 Ion Ratio Lower Upper
 83 100
 55 76.1 60.7 91.1
 98 45.8 35.4 53.2



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

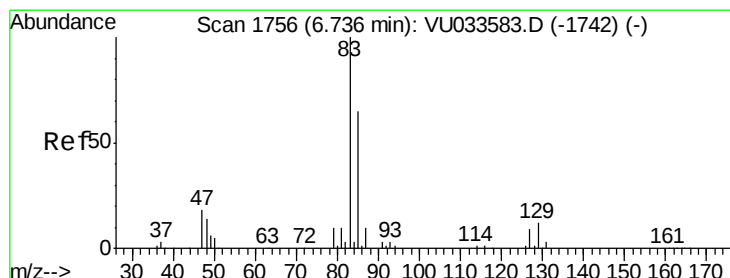
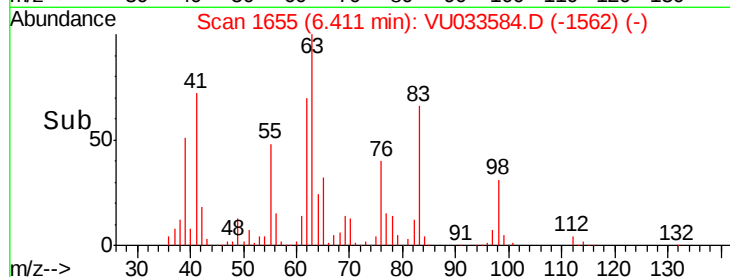
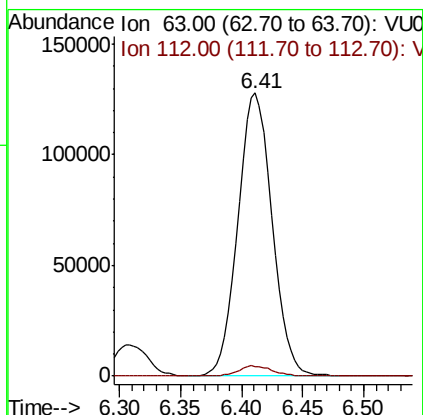
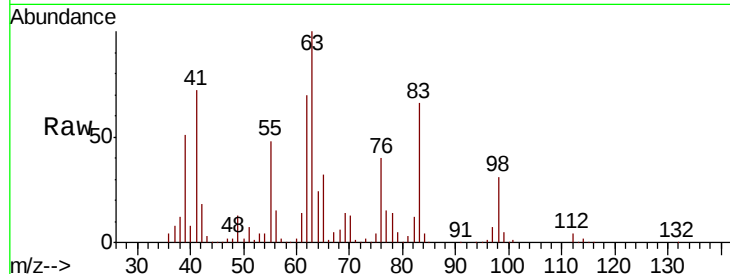




#37
 1,2-Dichloropropane
 Concen: 101.695 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

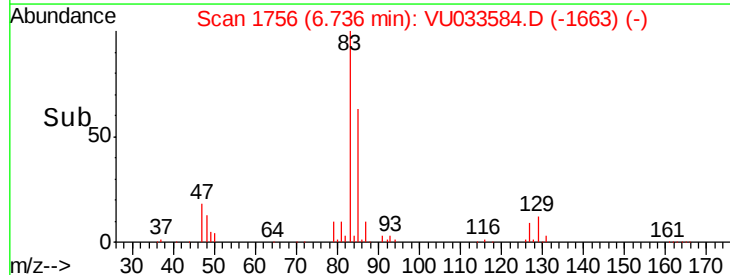
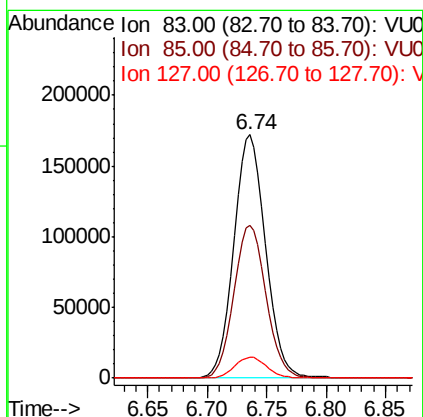
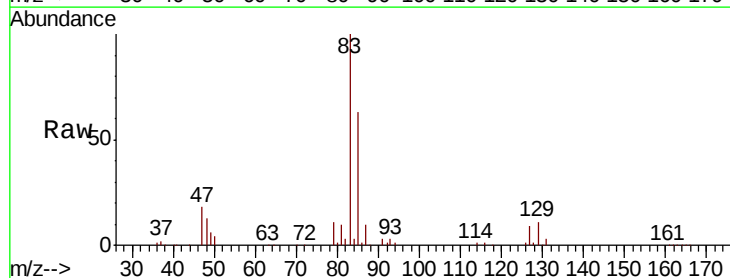
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD10032

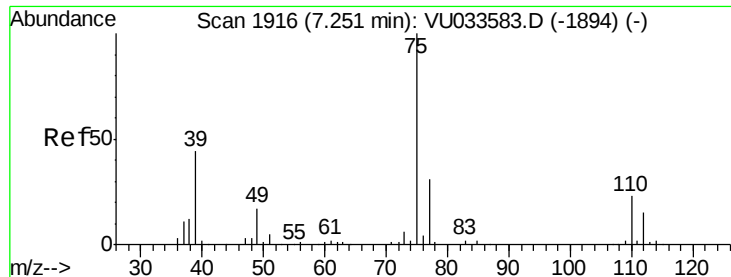
Tgt Ion: 63 Resp: 247016
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 101.847 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion: 83 Resp: 318482
 Ion Ratio Lower Upper
 83 100
 85 62.7 45.5 84.5
 127 8.5 6.9 10.3

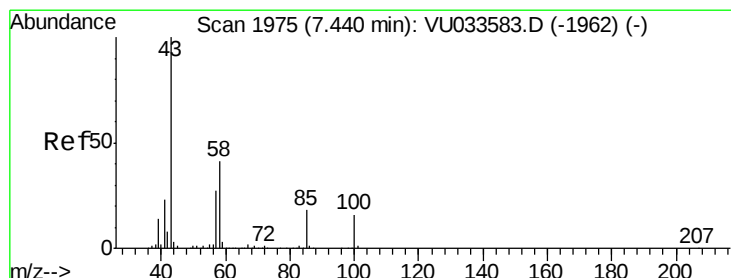
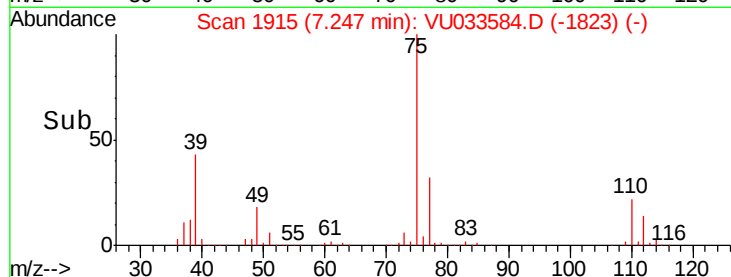
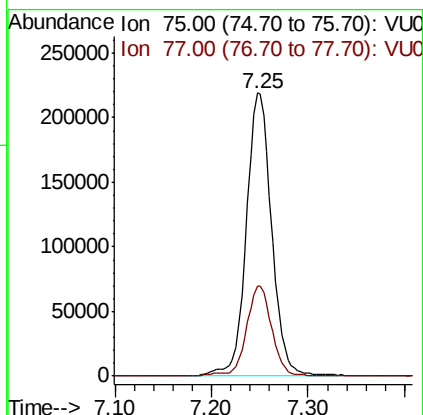
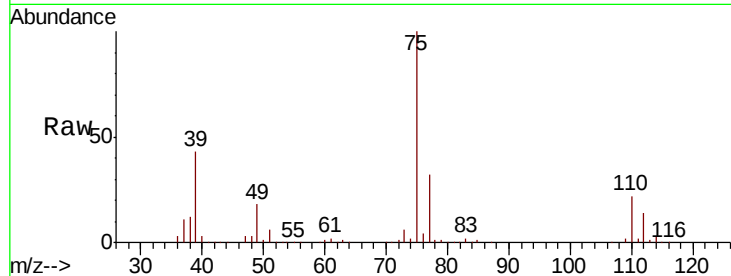




#39
 cis-1,3-Dichloropropene
 Concen: 105.758 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

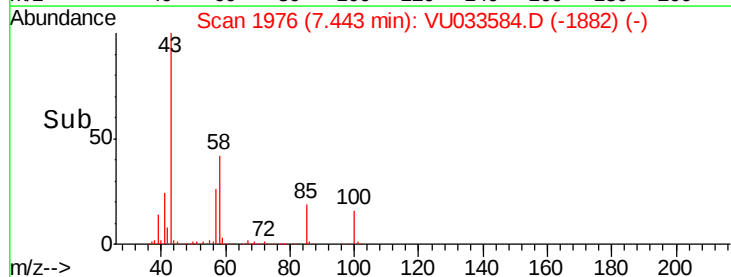
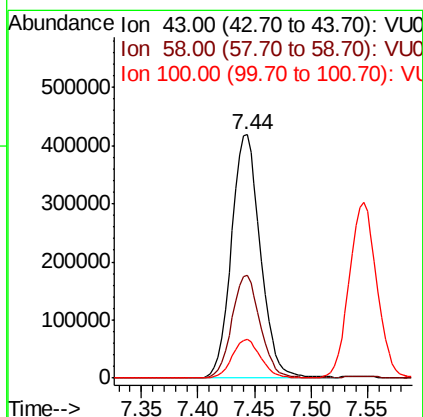
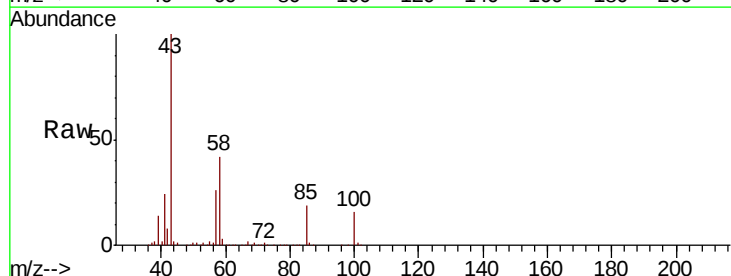
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

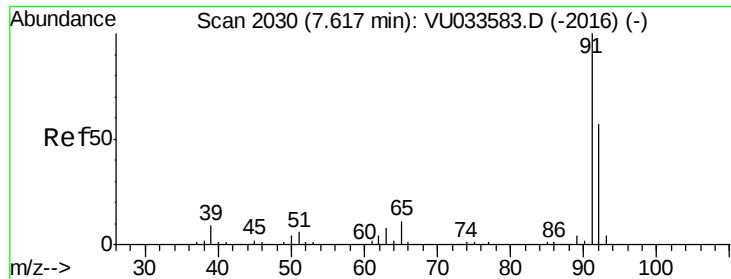
Tgt Ion: 75 Resp: 398379
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 221.962 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion: 43 Resp: 748398
 Ion Ratio Lower Upper
 43 100
 58 41.5 33.0 49.4
 100 15.6 12.4 18.6





#42

Toluene

Concen: 103.075 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

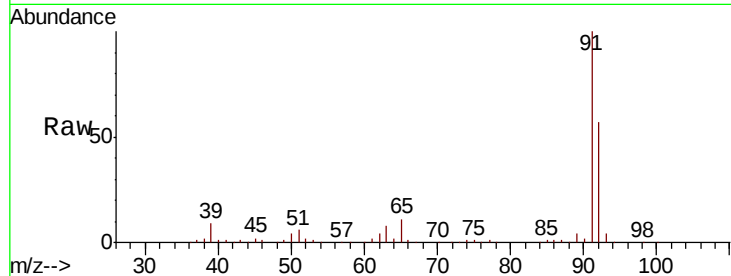
VSTD10032

Tgt Ion: 91 Resp: 994918

Ion Ratio Lower Upper

91 100

92 56.9 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033583.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033584.D (-1937) (-)

7.62

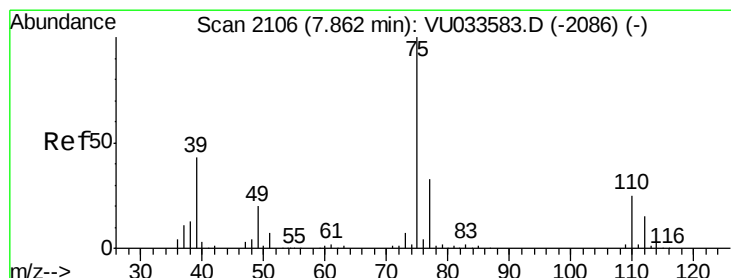
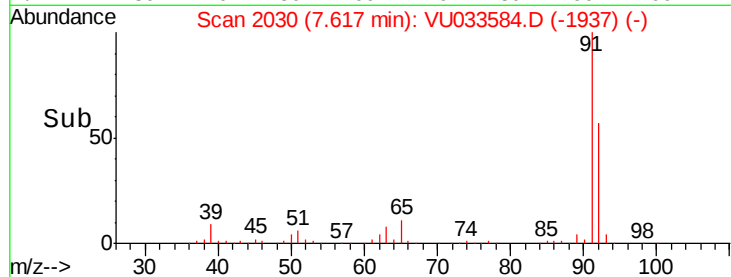
600000

400000

200000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 105.934 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033584.D

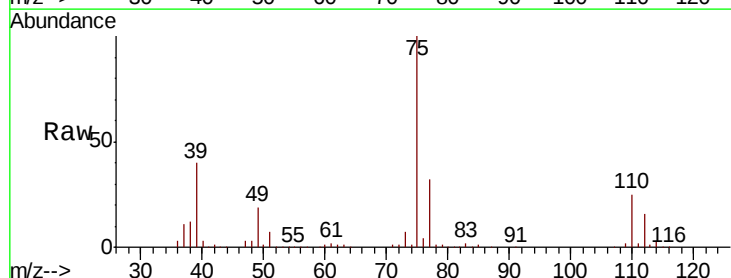
Acq: 03 Aug 2019 11:41

Tgt Ion: 75 Resp: 359254

Ion Ratio Lower Upper

75 100

77 31.8 23.4 43.4



Abundance Ion 75.00 (74.70 to 75.70): VU033583.D (-2086) (-)

Ion 77.00 (76.70 to 77.70): VU033584.D (-2133) (-)

7.86

200000

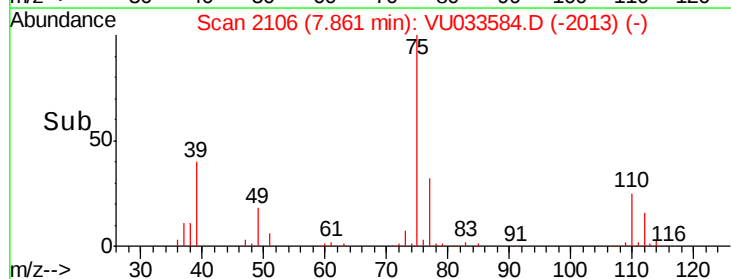
150000

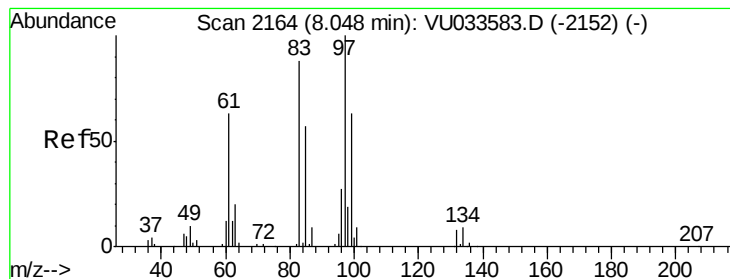
100000

50000

0

Time--> 7.80 7.90 8.00





#45

1,1,2-Trichloroethane

Concen: 102.255 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

Tgt Ion: 97 Resp: 234698

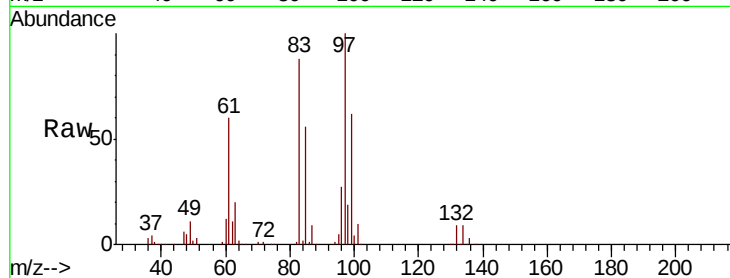
Ion Ratio Lower Upper

97 100

99 61.9 43.9 81.5

83 87.6 61.9 114.9

85 56.0 39.8 73.8

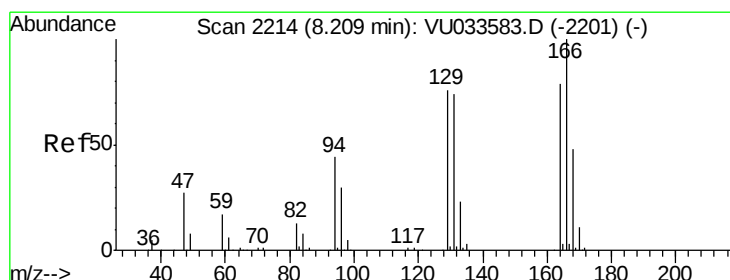
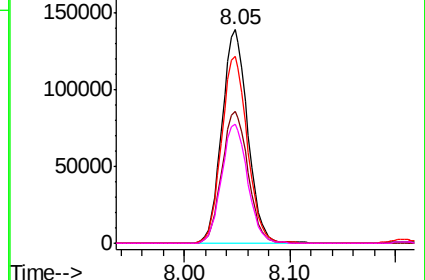
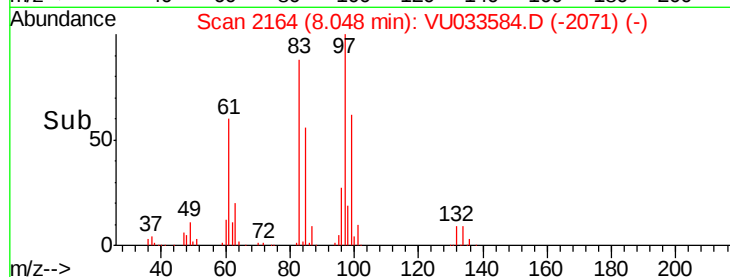


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 98.752 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Tgt Ion: 164 Resp: 190218

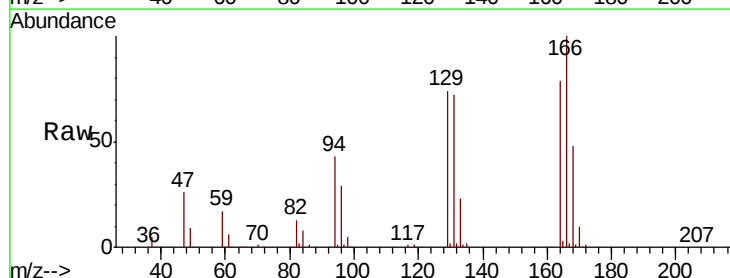
Ion Ratio Lower Upper

164 100

129 93.5 67.0 124.4

131 90.9 65.0 120.6

166 126.8 88.1 163.7

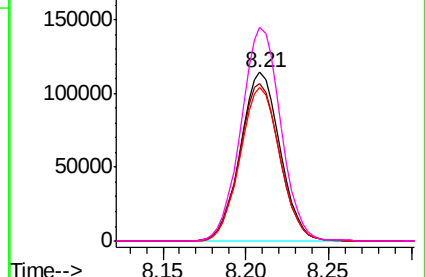
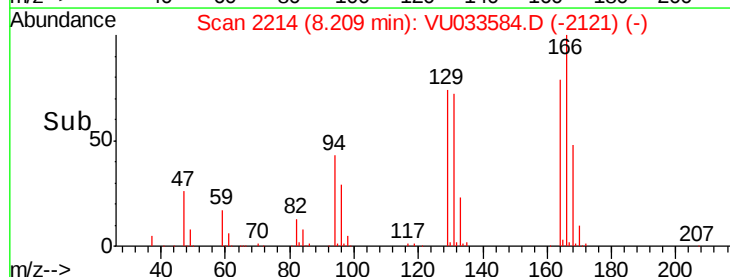


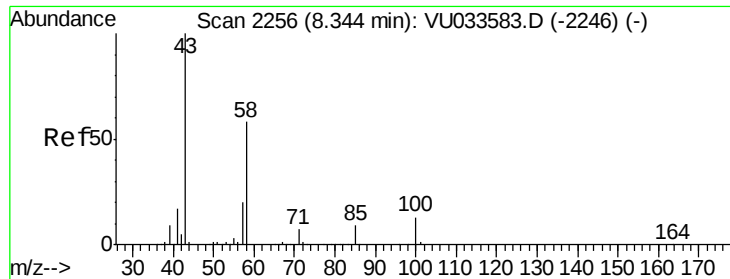
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

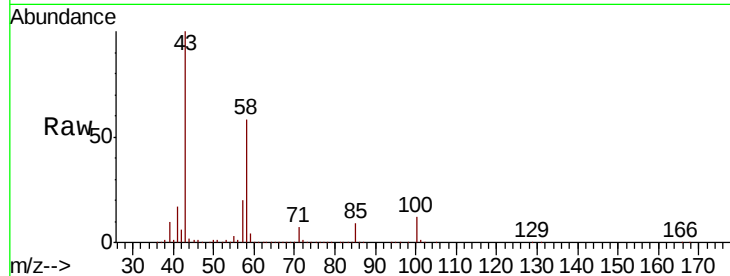




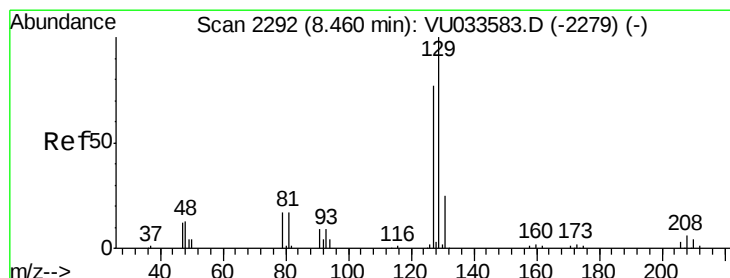
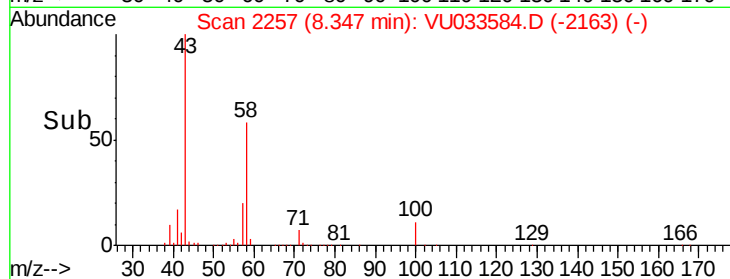
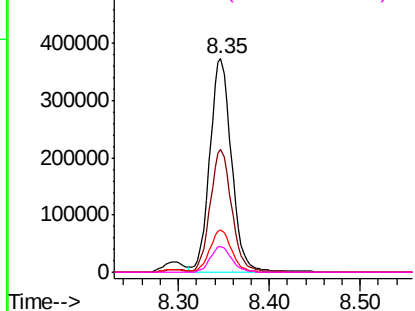
#48
2-Hexanone
Concen: 228.240 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD10032

Tgt Ion: 43 Resp: 619669
Ion Ratio Lower Upper
43 100
58 57.0 45.9 68.9
57 19.6 16.2 24.2
100 11.8 9.9 14.9

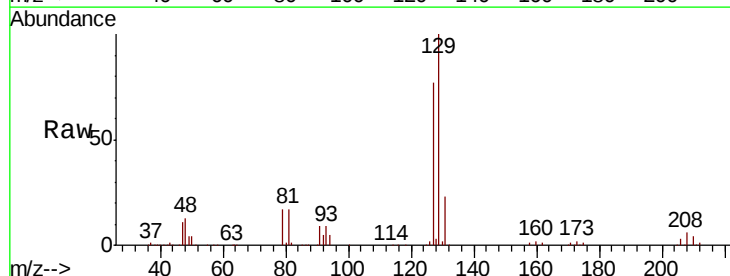


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

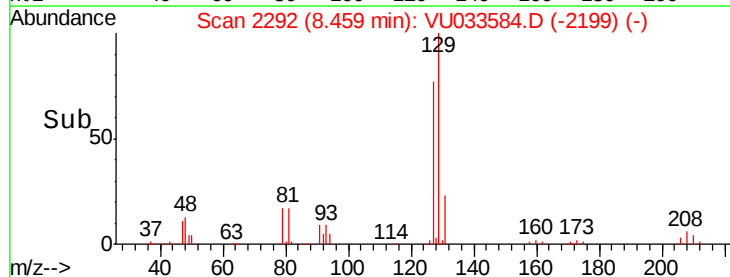
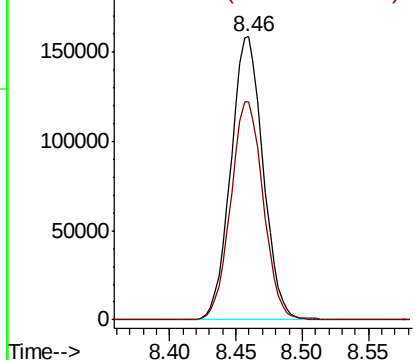


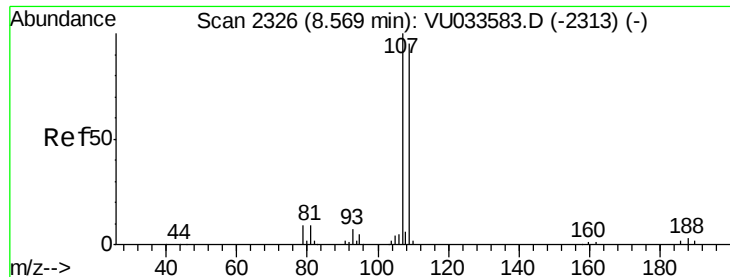
#49
Dibromochloromethane
Concen: 103.037 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033584.D
Acq: 03 Aug 2019 11:41

Tgt Ion: 129 Resp: 268562
Ion Ratio Lower Upper
129 100
127 77.0 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

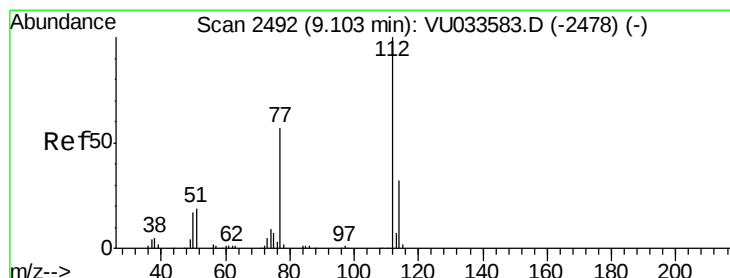
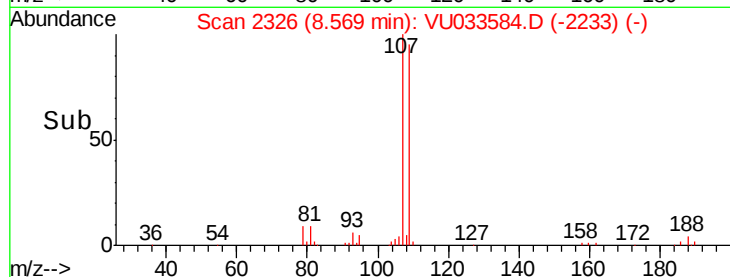
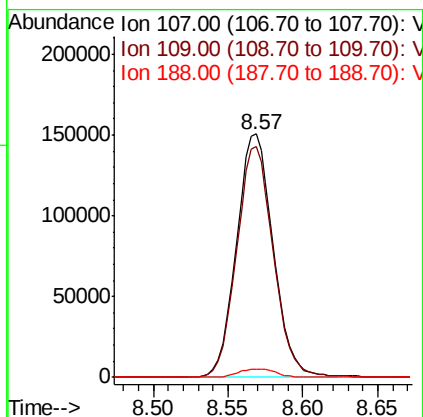
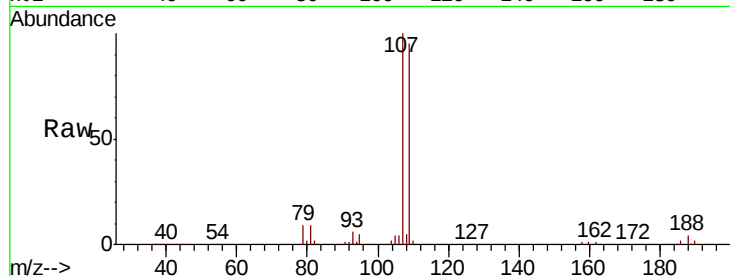




#50
 1,2-Dibromoethane
 Concen: 101.591 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

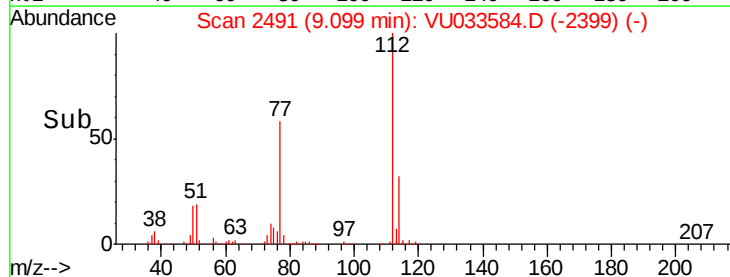
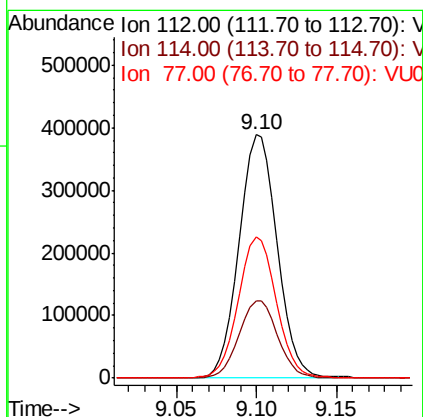
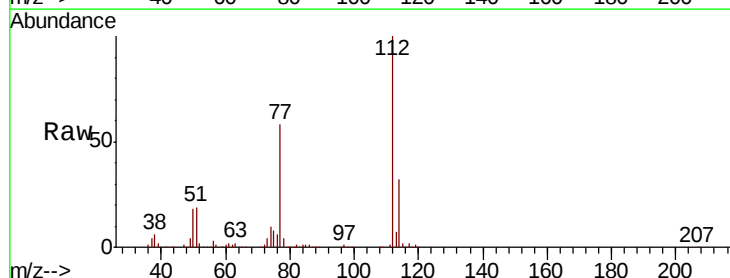
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

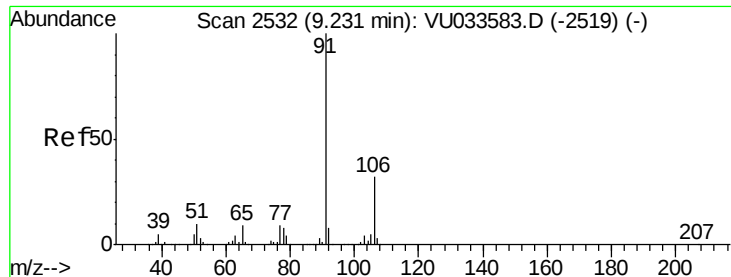
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	66.6	123.6
188	3.6	2.6	4.0



#51
 Chlorobenzene
 Concen: 99.874 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.3	41.3
77	57.7	46.3	69.5





#52

Ethylbenzene

Concen: 104.751 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

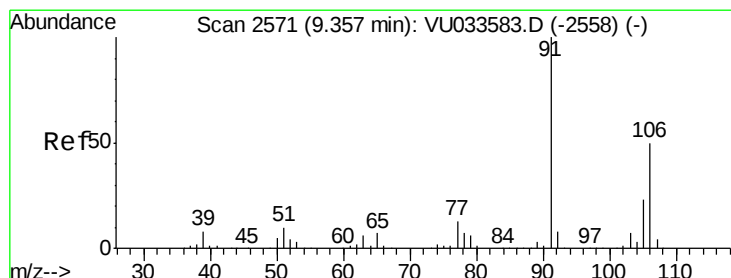
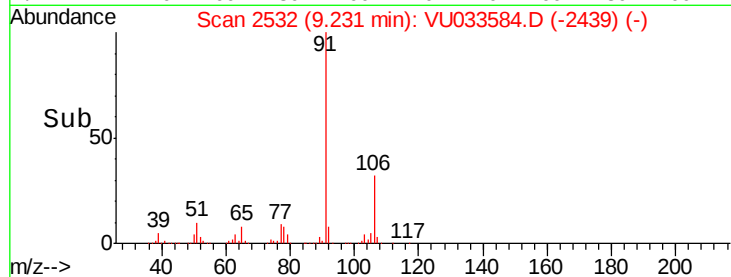
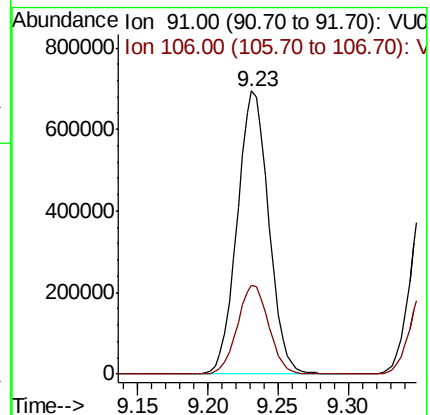
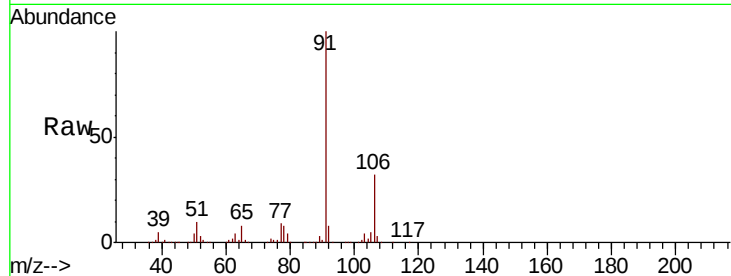
VSTD10032

Tgt Ion: 91 Resp: 1088773

Ion Ratio Lower Upper

91 100

106 31.5 22.1 41.1



#53

m,p-Xylene

Concen: 105.031 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033584.D

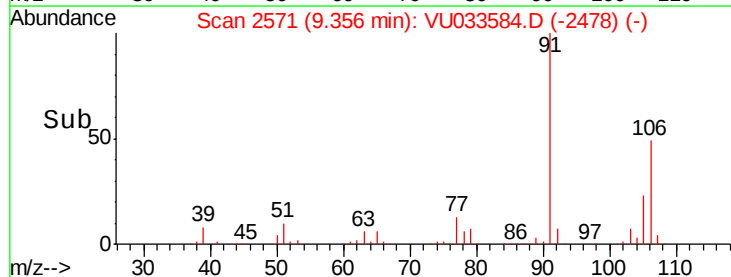
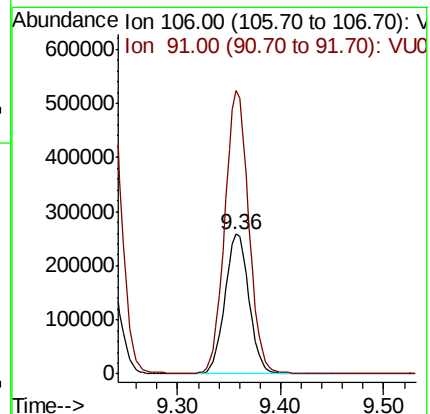
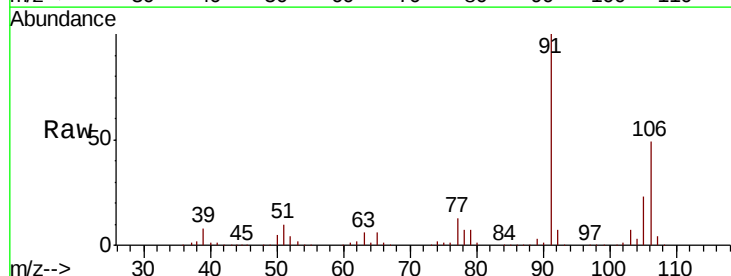
Acq: 03 Aug 2019 11:41

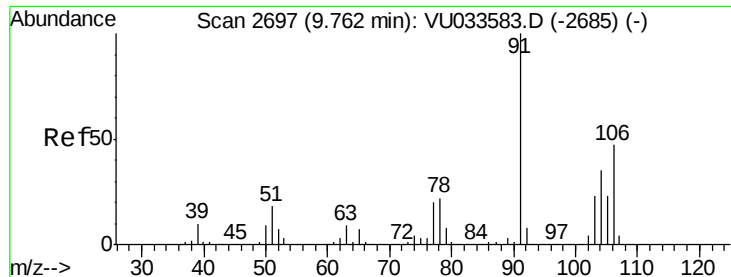
Tgt Ion: 106 Resp: 420204

Ion Ratio Lower Upper

106 100

91 202.8 141.2 262.2





#54

o-xylene

Concen: 107.658 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

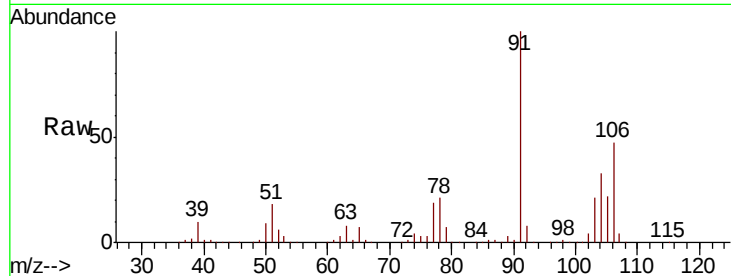
VSTD10032

Tgt Ion:106 Resp: 415471

Ion Ratio Lower Upper

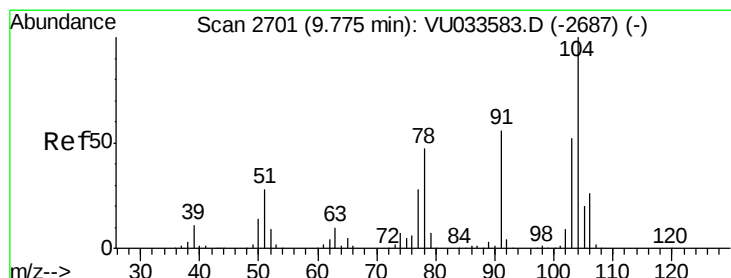
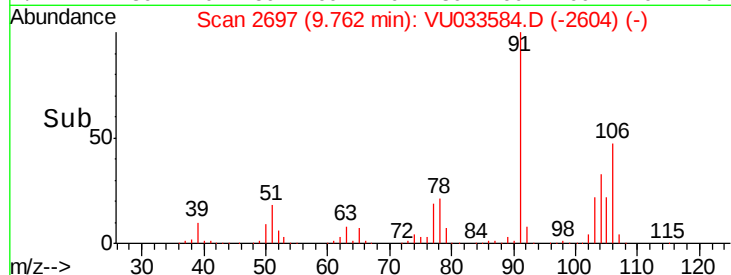
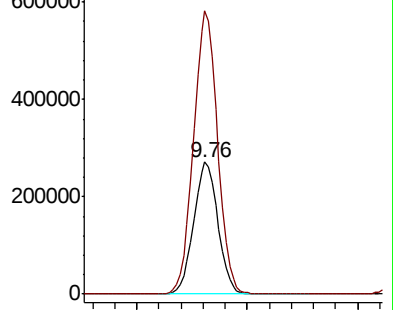
106 100

91 214.4 148.9 276.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 108.954 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033584.D

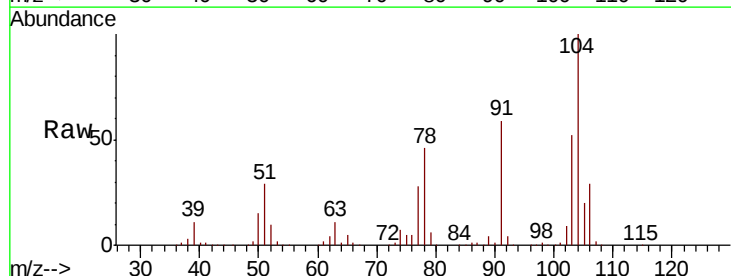
Acq: 03 Aug 2019 11:41

Tgt Ion:104 Resp: 714699

Ion Ratio Lower Upper

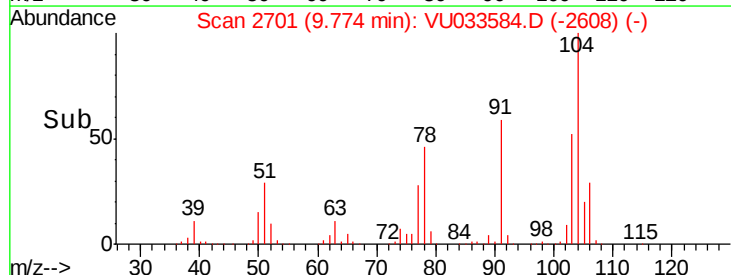
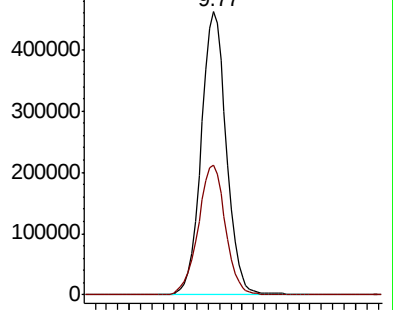
104 100

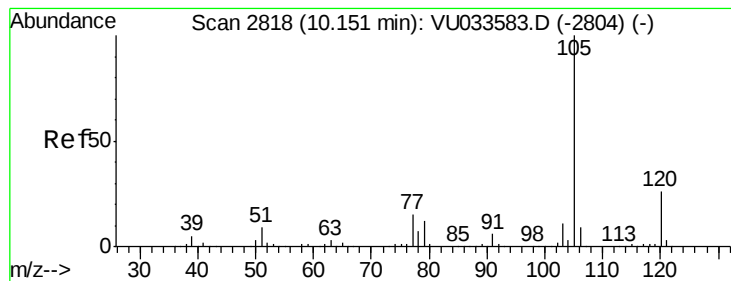
78 45.8 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 106.543 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

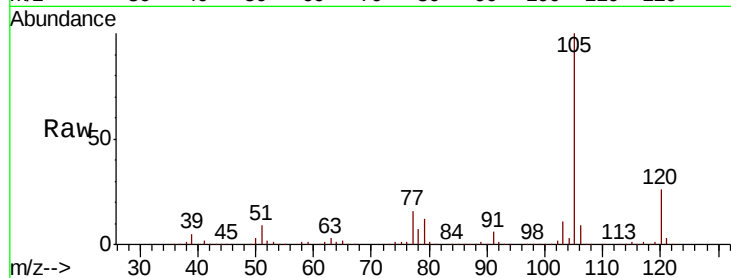
Tgt Ion:105 Resp: 1076760

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

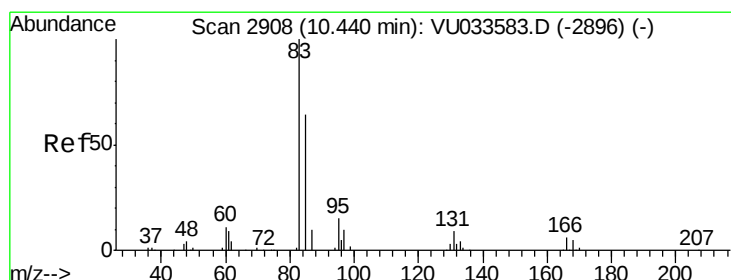
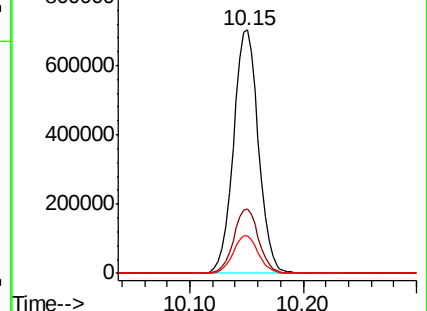
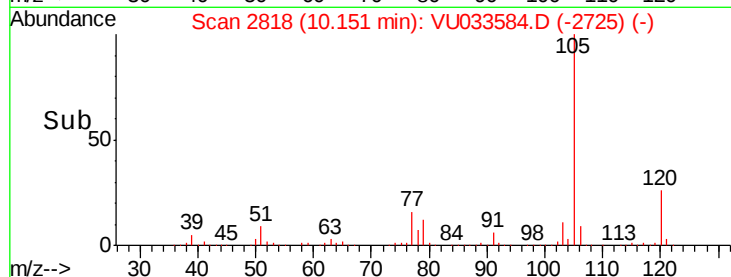
77 15.7 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 102.494 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

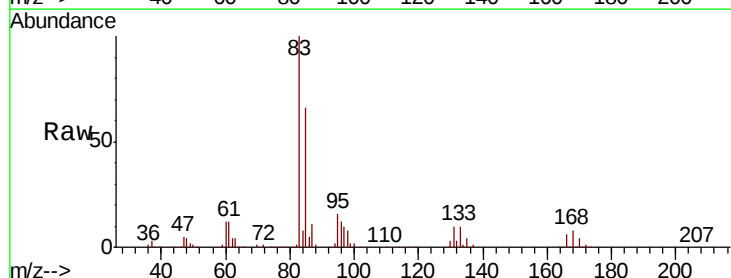
Tgt Ion: 83 Resp: 425099

Ion Ratio Lower Upper

83 100

85 65.6 45.1 83.9

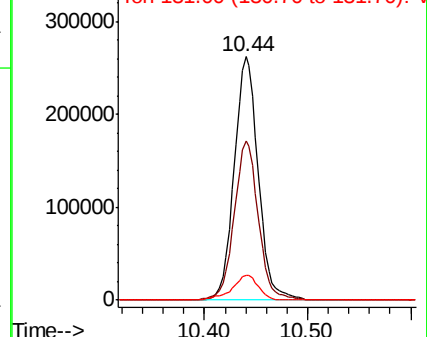
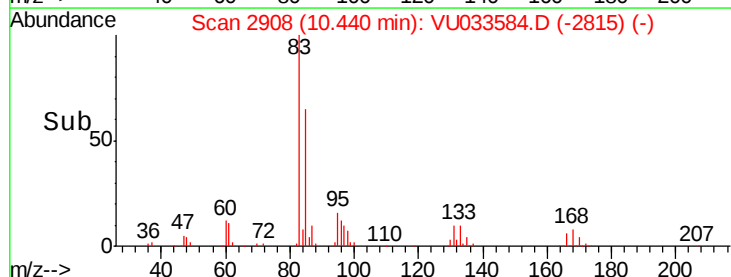
131 10.1 7.4 11.2

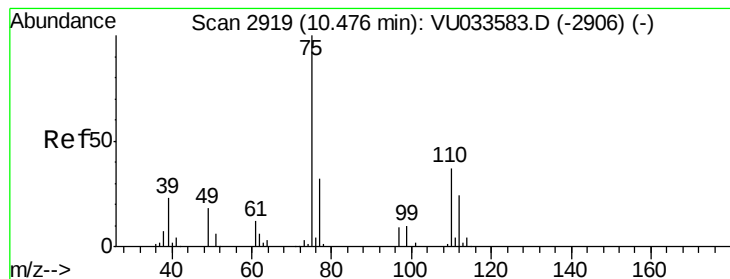


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 102.736 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

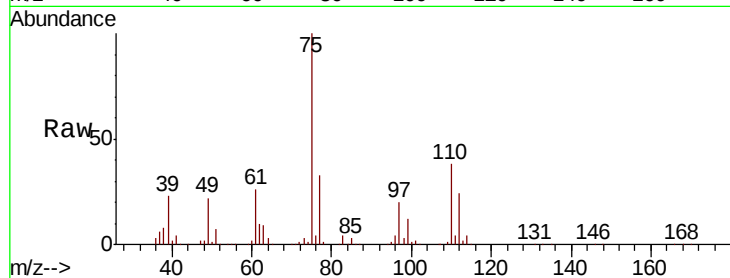
VSTD10032

Tgt Ion: 75 Resp: 329347

Ion Ratio Lower Upper

75 100

77 32.4 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VU033583.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU033583.D (-2906) (-)

10.48

200000

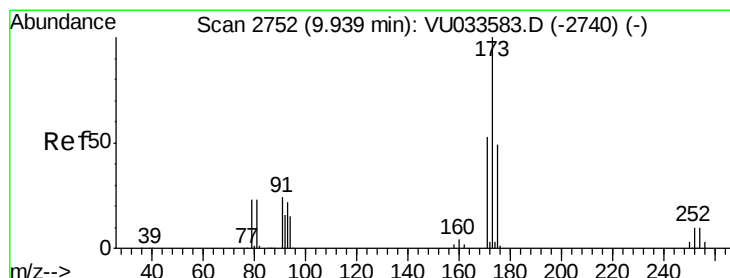
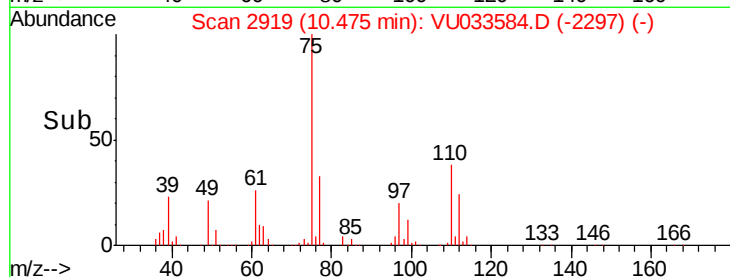
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 103.150 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

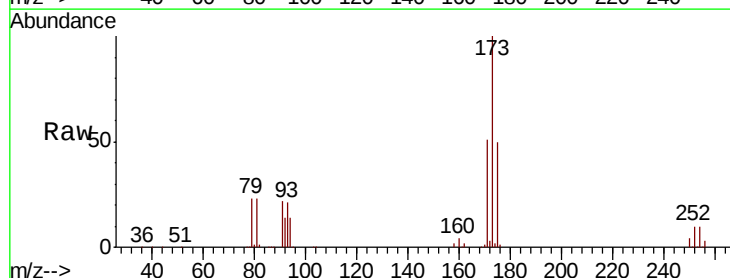
Tgt Ion: 173 Resp: 212167

Ion Ratio Lower Upper

173 100

175 49.1 39.5 59.3

254 9.7 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU033583.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033583.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033583.D (-2740) (-)

9.94

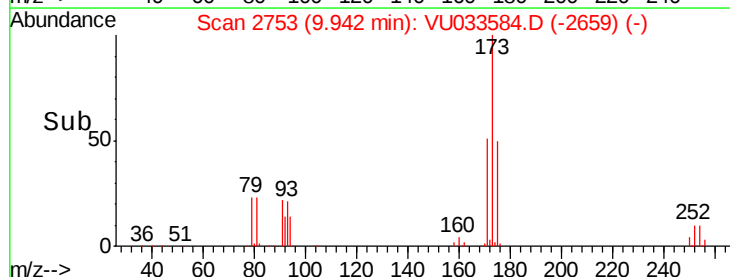
150000

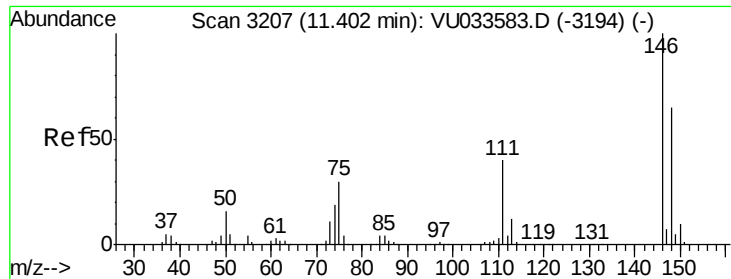
100000

50000

0

Time-->

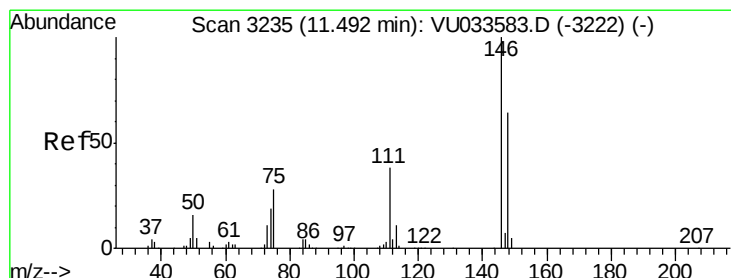
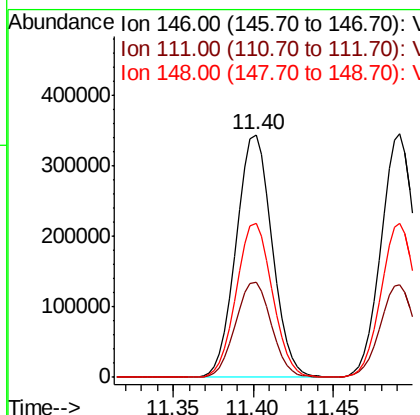
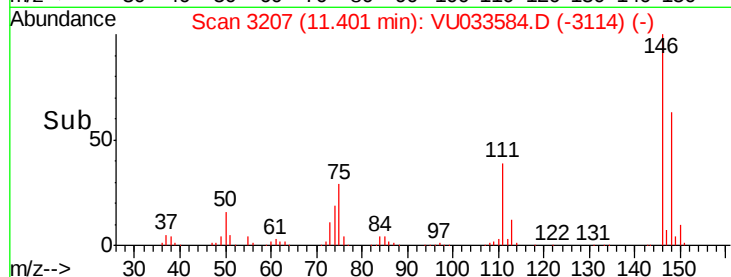
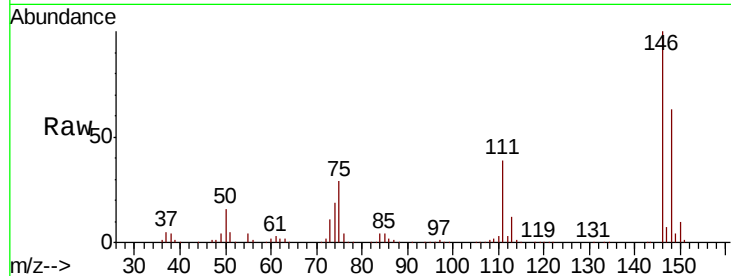




#62
 1,3-Dichlorobenzene
 Concen: 100.747 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

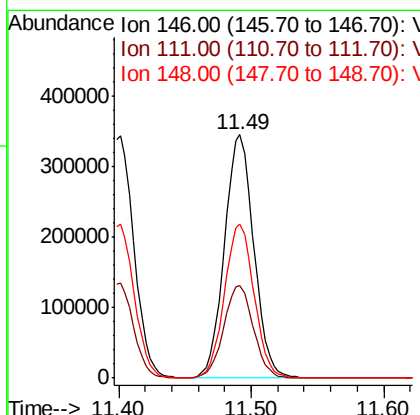
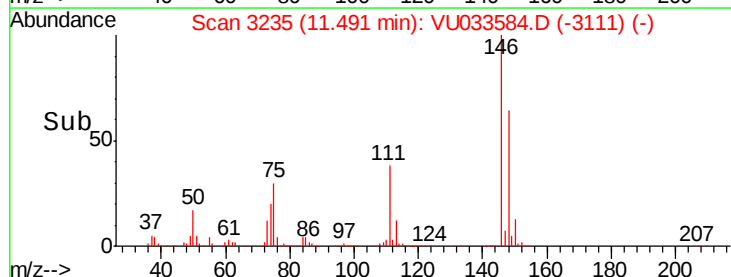
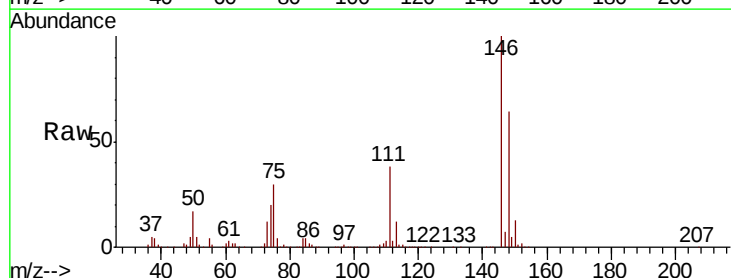
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

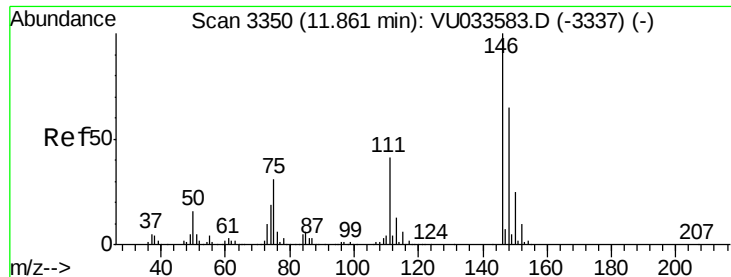
Tgt Ion:146 Resp: 525968
 Ion Ratio Lower Upper
 146 100
 111 38.9 27.7 51.5
 148 63.4 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 97.393 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion:146 Resp: 529088
 Ion Ratio Lower Upper
 146 100
 111 38.0 26.8 49.8
 148 63.5 45.0 83.6

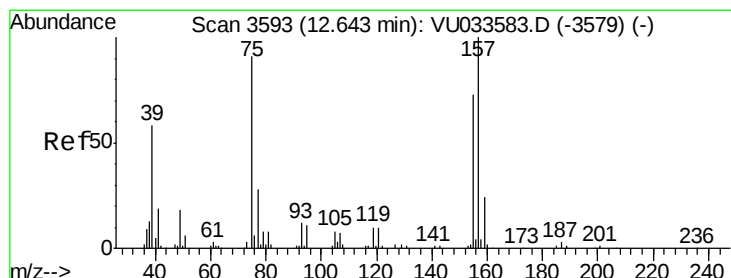
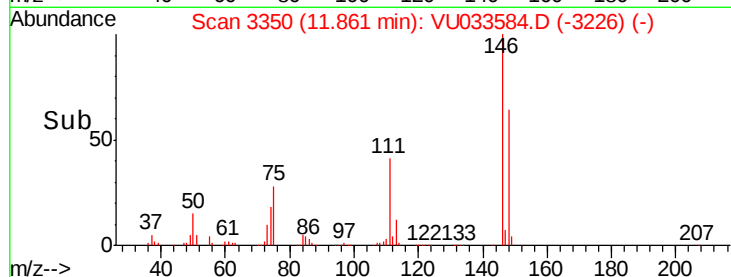
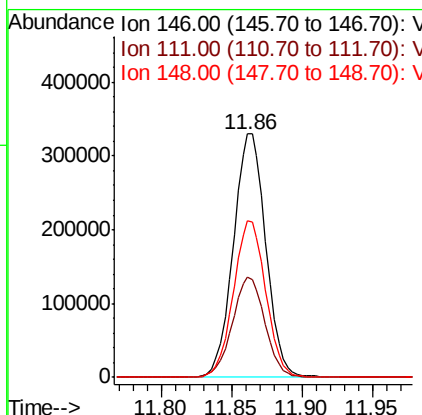
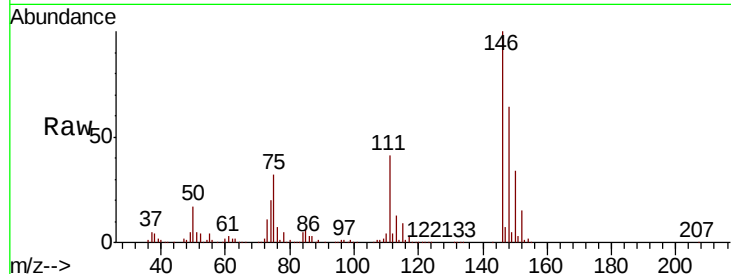




#65
 1,2-Dichlorobenzene
 Concen: 100.874 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

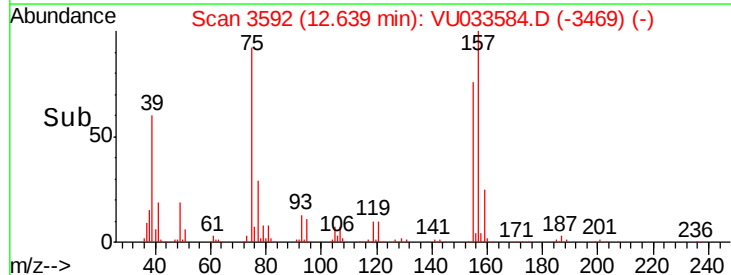
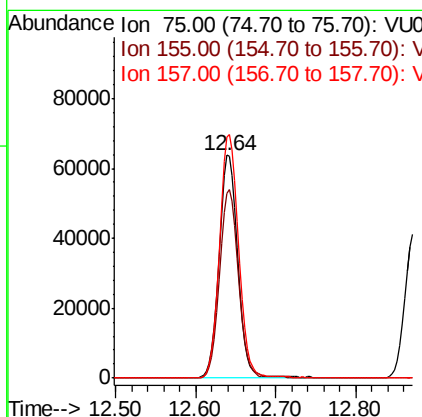
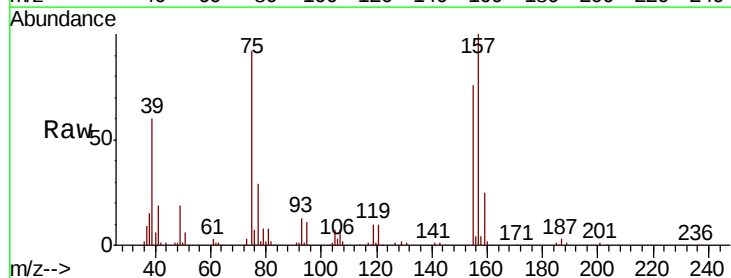
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

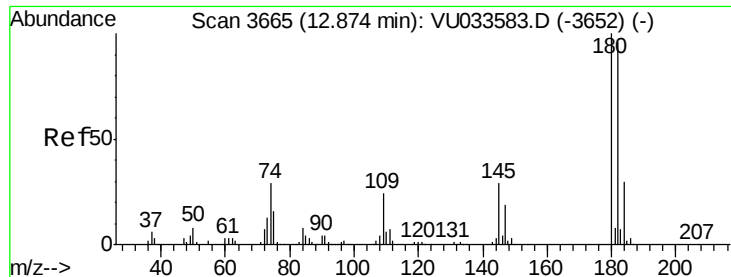
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	33.1	49.7
148	64.1	52.1	78.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 105.323 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.8	64.3	96.5
157	108.3	88.0	132.0

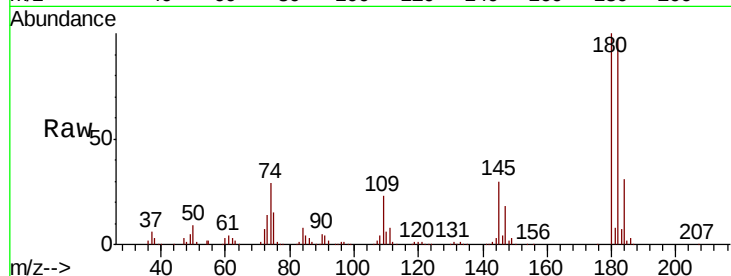




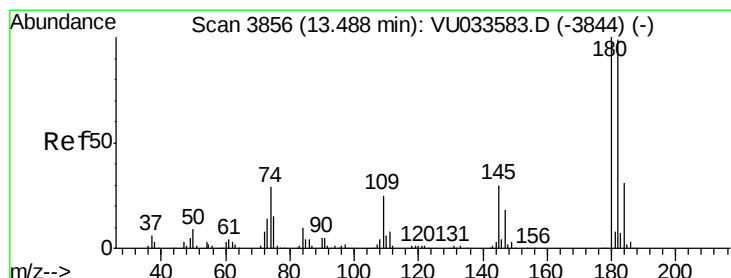
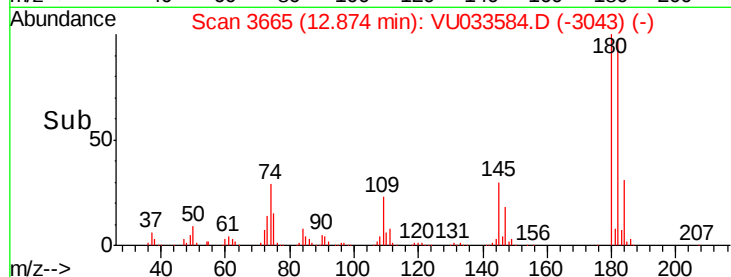
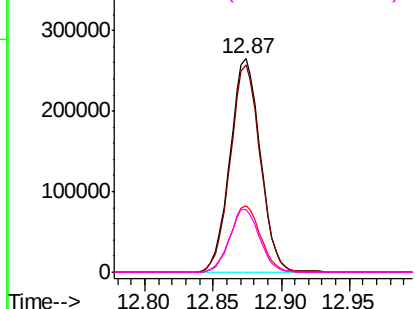
#67
 1,3,5-Trichlorobenzene
 Concen: 97.879 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10032

Tgt Ion:	180	Resp:	410354
Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.8	115.2
184	30.9	23.9	35.9
145	29.3	23.3	34.9

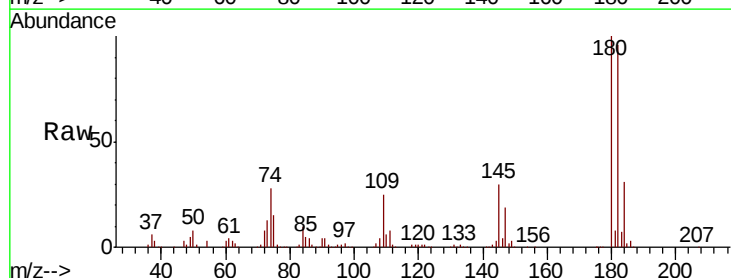


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

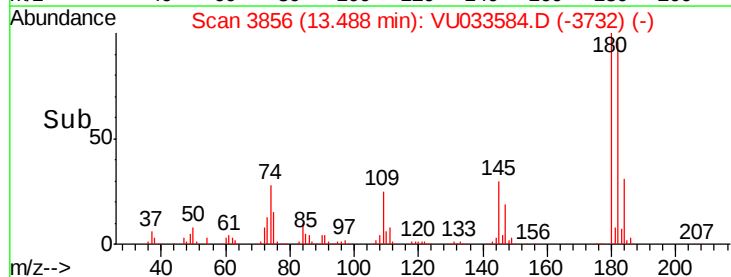
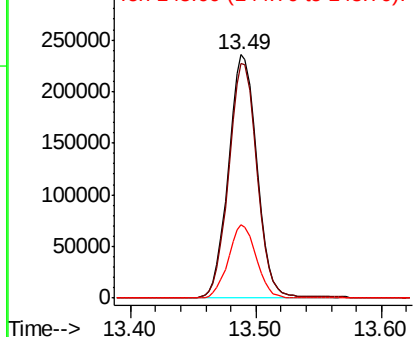


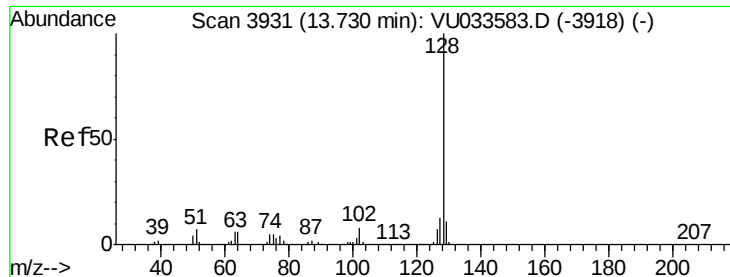
#68
 1,2,4-trichlorobenzene
 Concen: 104.093 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033584.D
 Acq: 03 Aug 2019 11:41

Tgt Ion:	180	Resp:	372098
Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.2	115.8
145	29.5	23.6	35.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 110.678 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD10032

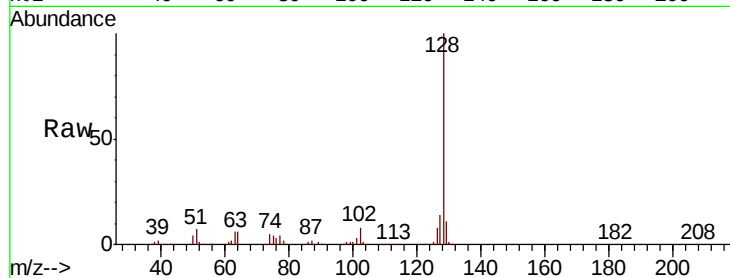
Tgt Ion:128 Resp: 1137473

Ion Ratio Lower Upper

128 100

127 13.5 10.6 16.0

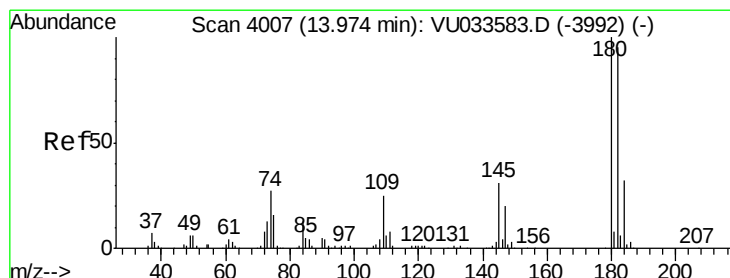
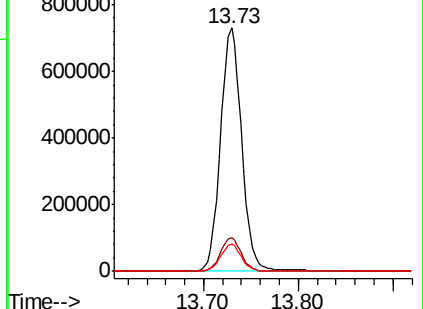
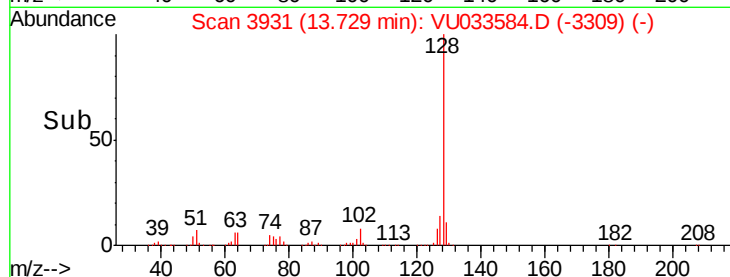
129 10.9 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 102.615 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033584.D

Acq: 03 Aug 2019 11:41

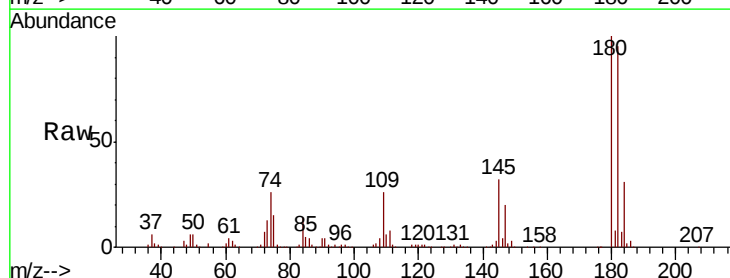
Tgt Ion:180 Resp: 385620

Ion Ratio Lower Upper

180 100

182 95.5 76.5 114.7

145 31.3 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

