

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020419\
 Data File : VL033159.D
 Acq On : 4 Feb 2019 17:17
 Operator : SY/AP
 Sample : VL0204ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Quant Time: Feb 05 01:01:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 04 14:41:39 2019
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1210706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2858549	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3584209	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2259669	8.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	2107318	11.820	ppbv	99
3) Chlorodifluoromethane	3.02	51	1337092	9.916	ppbv	99
4) Chloromethane	3.17	50	734469	9.679	ppbv	98
5) Vinyl Chloride	3.29	62	697022	9.307	ppbv	99
6) Bromomethane	3.52	94	417408	9.891	ppbv	98
7) Chloroethane	3.60	64	254723	10.004	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1571050	9.614	ppbv	96
9) Propene	3.04	41	657136	9.699	ppbv	99
10) Heptane	8.25	43	1682629	7.972	ppbv	100
11) Trichlorofluoromethane	4.01	101	1669256	9.690	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1112361	9.946	ppbv	96
13) Ethanol	3.65	45	143023	5.355	ppbv	99
14) Bromoethene	3.79	108	508973	9.872	ppbv	99
15) Acetone	3.90	43	1174277	8.146	ppbv	98
16) 1,3-Butadiene	3.37	39	582985	9.963	ppbv	98
17) tert-Butyl alcohol	4.36	59	258501	8.120	ppbv	100
18) 1,1-Dichloroethene	4.35	96	520606	10.116	ppbv	96
19) Isopropyl Alcohol	4.03	45	828340	8.090	ppbv	# 46
20) Methylene Chloride	4.41	84	445641	8.974	ppbv	98
21) Allyl Chloride	4.48	41	868154	10.002	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	509570	10.026	ppbv	99
23) Vinyl Acetate	5.16	43	2303613	9.824	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1533206	9.583	ppbv	98
25) Ethyl Acetate	5.77	43	2595056	8.712	ppbv	100
26) Hexane	5.78	57	1175684	8.436	ppbv	99
27) Carbon Disulfide	4.62	76	1297451	10.814	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	1878286	9.263	ppbv	99
29) Chloroform	5.85	83	1848082	8.765	ppbv	96
30) Cyclohexane	7.25	84	1048704	7.838	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1270452	9.565	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	1786060	8.593	ppbv	# 84
34) 2-Butanone	5.33	43	1802945	10.028	ppbv	99
35) Carbon Tetrachloride	7.14	117	1798425	9.824	ppbv	99
36) Benzene	7.01	78	2574902	8.910	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1431231	9.697	ppbv	99
38) Trichloroethene	7.97	130	893803	8.516	ppbv	96
39) 1,2-Dichloropropane	7.74	63	1015831	9.165	ppbv	98
40) 1,4-Dioxane	7.96	88	328837	7.606	ppbv	# 1
41) Tetrahydrofuran	6.15	42	1098966	9.839	ppbv	99
42) Bromodichloromethane	7.92	83	2070503	9.586	ppbv	99
43) Methyl Methacrylate	8.14	69	1062929	9.247	ppbv	99

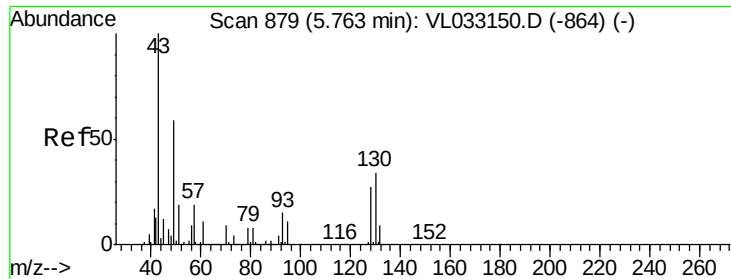
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020419\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 04 14:41:39 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4278035	8.822	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1382876	9.748	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1597838	9.364	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1030727	8.662	ppbv	94
48) Dibromochloromethane	10.46	129	1656951	9.356	ppbv	100
49) Bromoform	13.21	173	1399848	9.577	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2610916	8.023	ppbv	99
51) 2-Hexanone	10.27	43	2127834	7.796	ppbv #	99
52) Tetrachloroethene	11.38	164	839442	8.358	ppbv	97
53) Toluene	9.95	91	2976712	8.673	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1609248	8.932	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1162917	7.505	ppbv #	58
57) Chlorobenzene	12.31	112	2133851	7.141	ppbv	96
58) Ethyl Benzene	12.87	91	4074167	7.225	ppbv	97
59) m/p-Xylene	13.13	91	3381680	7.323	ppbv #	30
60) o-Xylene	13.86	91	3179632	7.461	ppbv	95
61) Styrene	13.69	104	2536907	7.440	ppbv	97
62) Isopropylbenzene	14.83	105	4488239	7.379	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2218927	7.258	ppbv	100
64) n-propylbenzene	15.73	120	1681417	10.593	ppbv	95
65) tert-Butylbenzene	16.91	119	5505500	10.091	ppbv	95
66) Benzyl Chloride	17.16	91	3056818	12.336	ppbv	97
67) sec-Butylbenzene	17.46	105	8032602	10.299	ppbv	100
69) p-Isopropyltoluene	17.82	119	6556426	10.172	ppbv	98
70) n-Butylbenzene	18.72	91	7183362	10.243	ppbv	99
71) 2-Chlorotoluene	15.62	91	5112416	10.602	ppbv	98
72) 4-Ethyltoluene	16.01	105	5375575	10.554	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	5147298	10.482	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	5072323	10.127	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	2846015	10.293	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2894539	10.422	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2890593	10.510	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1301917	9.516	ppbv	99
79) Naphthalene	22.42	128	2802766	4.779	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2674903	8.946	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	2623596	9.871	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.01 min

Lab File: VL033159.D

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Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

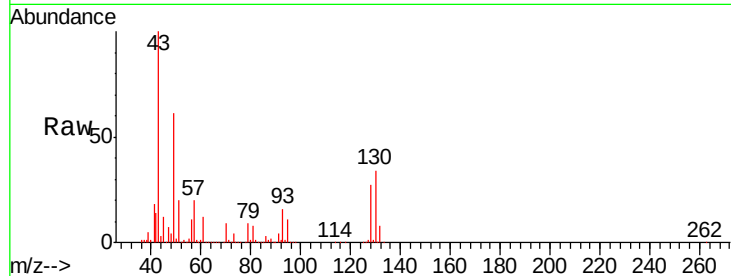
Tgt Ion: 49 Resp: 1210706

Ion Ratio Lower Upper

49 100

128 44.9 23.2 69.5

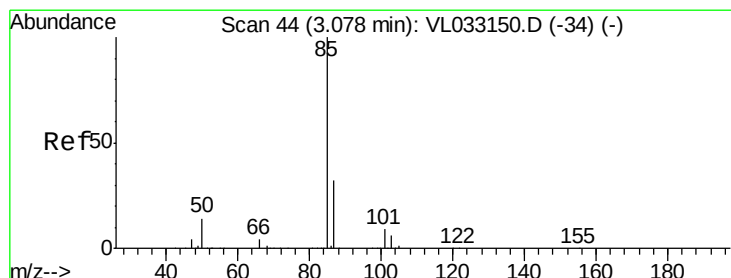
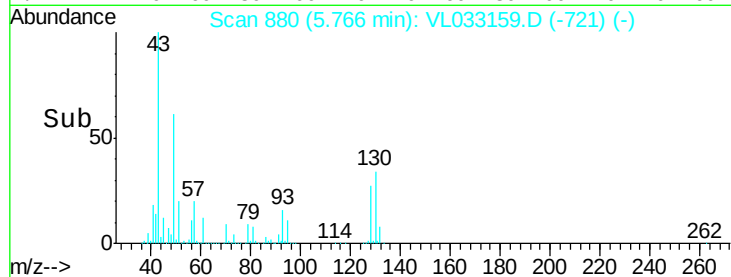
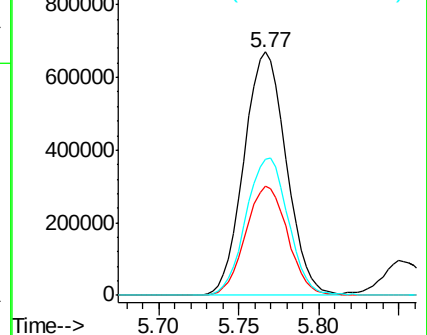
130 56.7 29.5 88.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 11.820 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.01 min

Lab File: VL033159.D

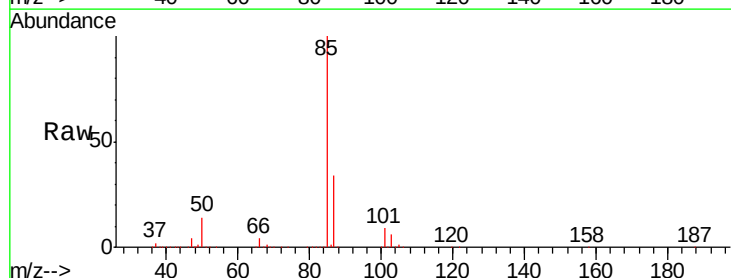
Acq: 4 Feb 2019 17:17

Tgt Ion: 85 Resp: 2107318

Ion Ratio Lower Upper

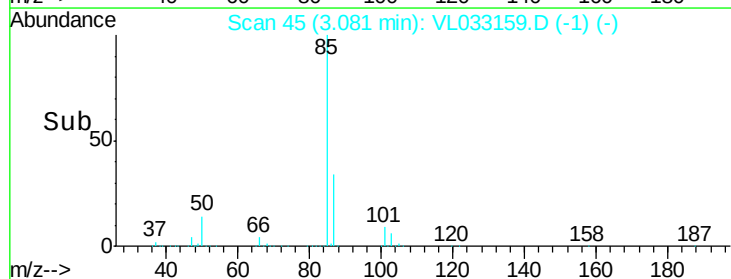
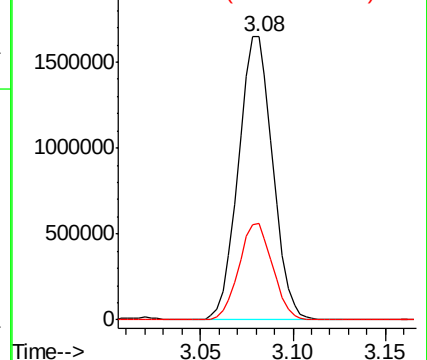
85 100

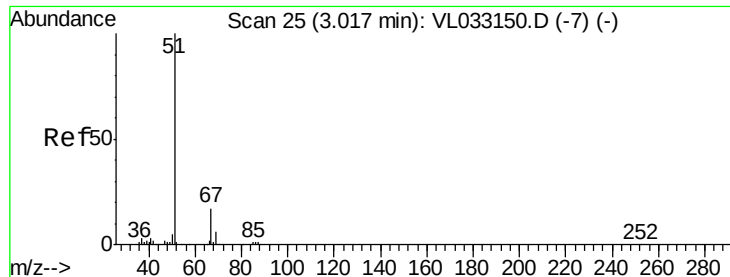
87 33.9 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.916 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

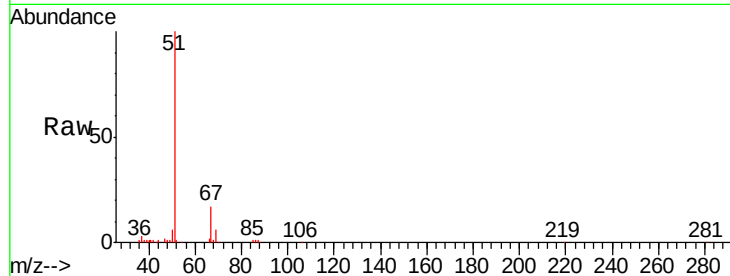
VL0204ABS01

Tgt Ion: 51 Resp: 1337092

Ion Ratio Lower Upper

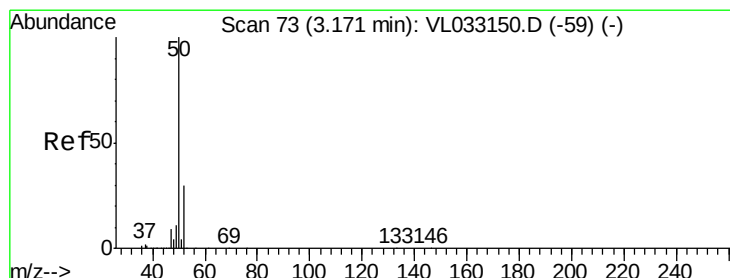
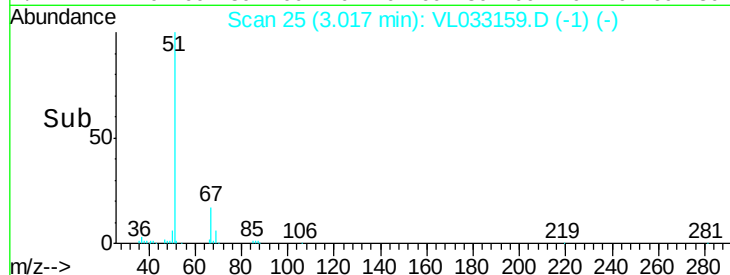
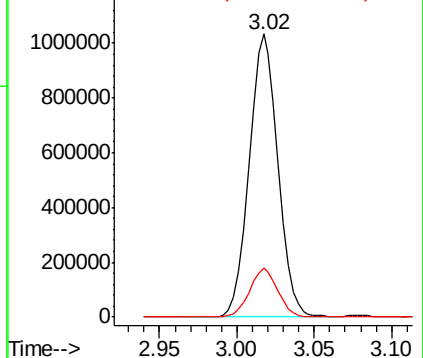
51 100

67 17.3 13.4 20.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.679 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033159.D

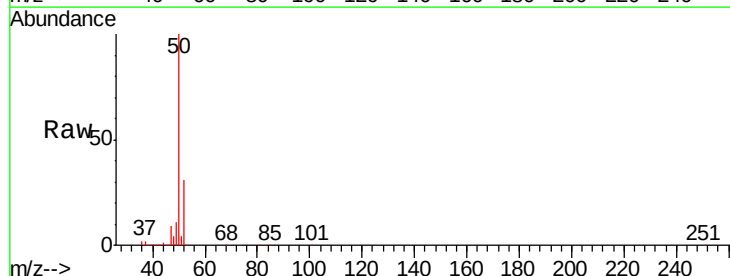
Acq: 4 Feb 2019 17:17

Tgt Ion: 50 Resp: 734469

Ion Ratio Lower Upper

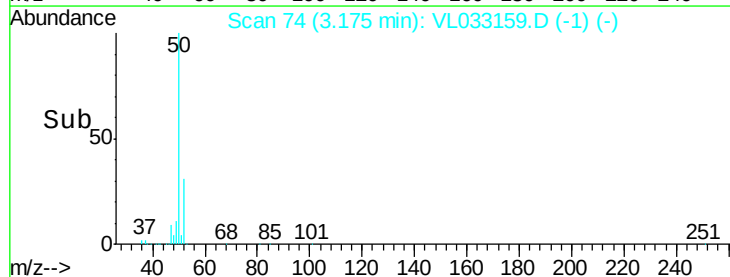
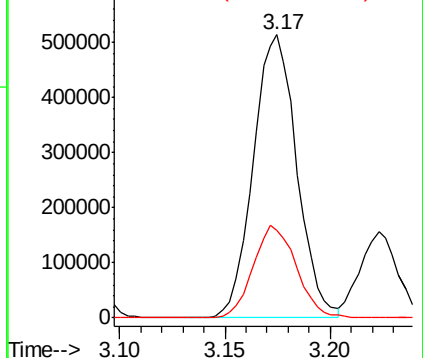
50 100

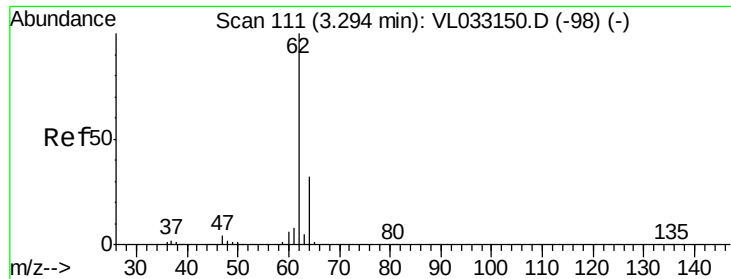
52 31.1 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.307 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

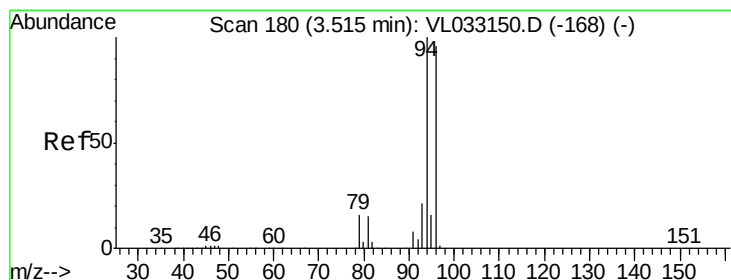
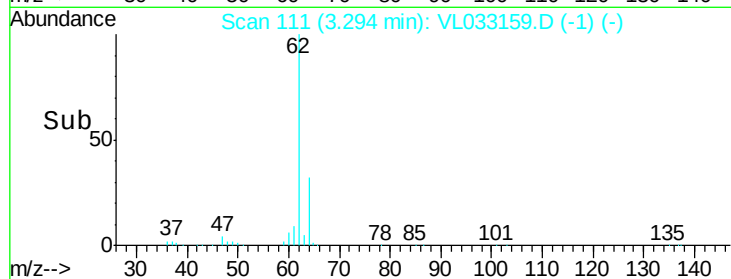
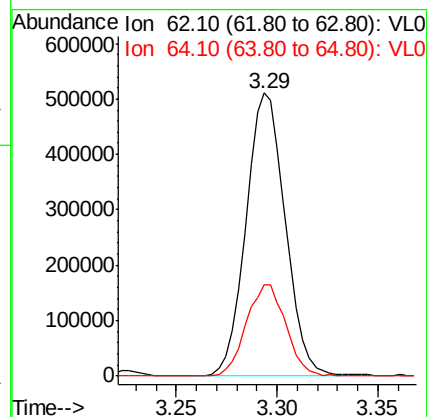
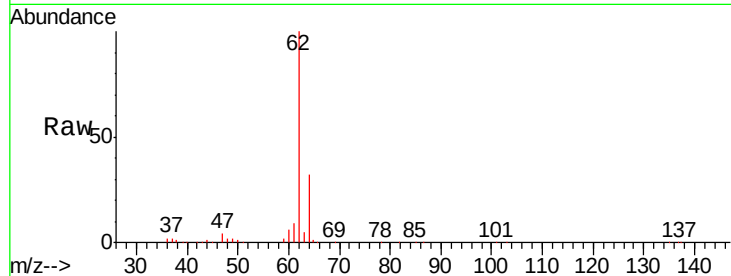
VL0204ABS01

Tgt Ion: 62 Resp: 697022

Ion Ratio Lower Upper

62 100

64 32.1 26.3 39.5



#6

Bromomethane

Concen: 9.891 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033159.D

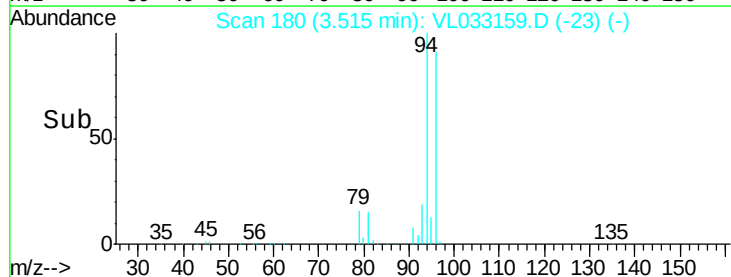
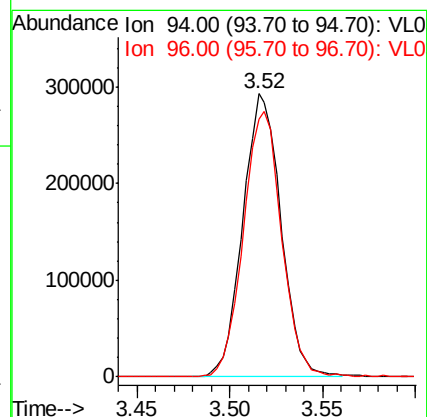
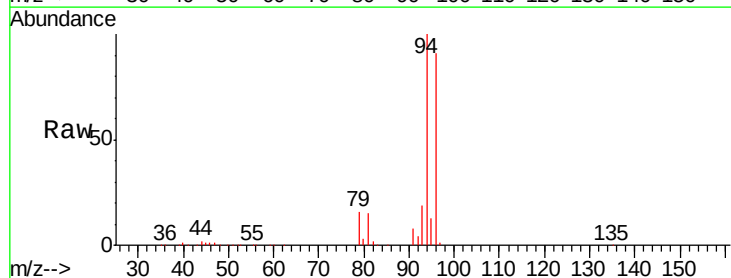
Acq: 4 Feb 2019 17:17

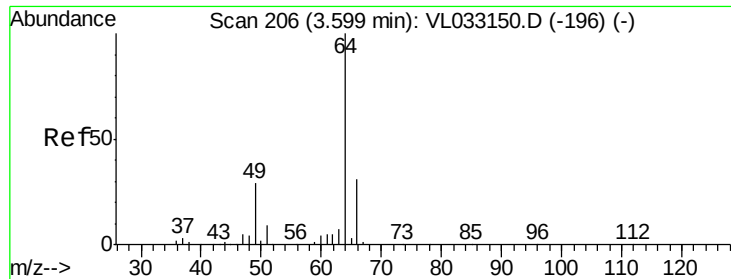
Tgt Ion: 94 Resp: 417408

Ion Ratio Lower Upper

94 100

96 91.0 74.0 111.0





#7

Chloroethane

Concen: 10.004 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

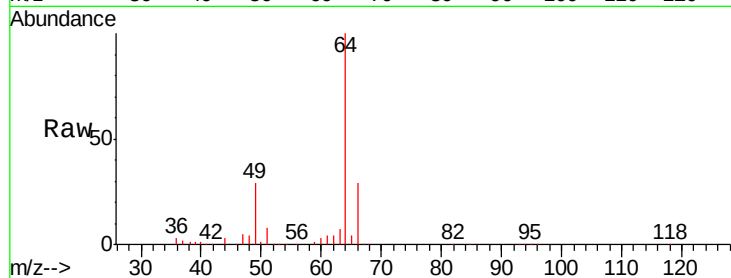
VL0204ABS01

Tgt Ion: 64 Resp: 254723

Ion Ratio Lower Upper

64 100

66 29.3 22.3 33.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

200000

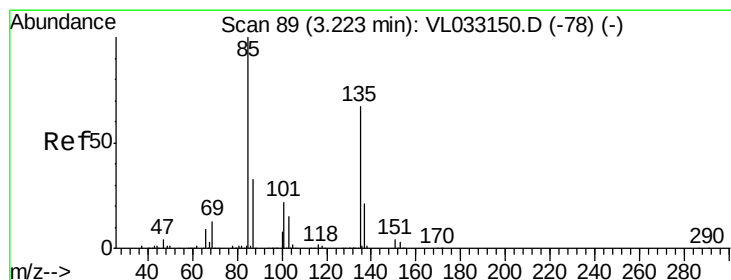
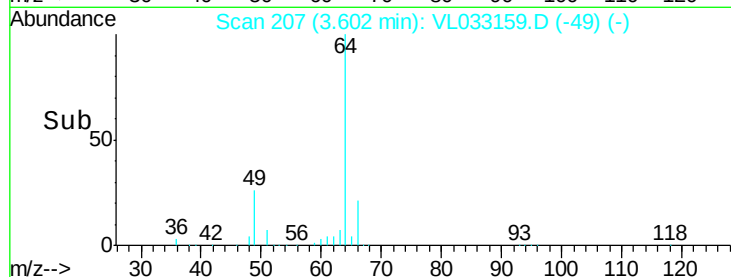
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.614 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL033159.D

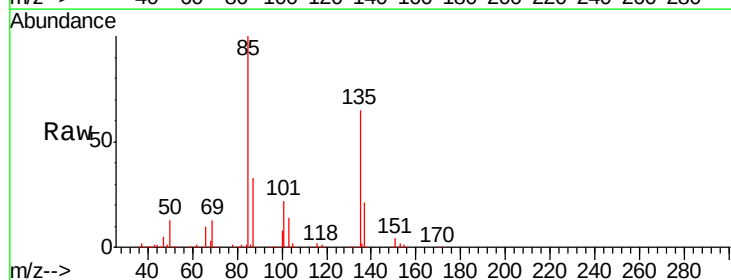
Acq: 4 Feb 2019 17:17

Tgt Ion: 85 Resp: 1571050

Ion Ratio Lower Upper

85 100

135 64.5 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

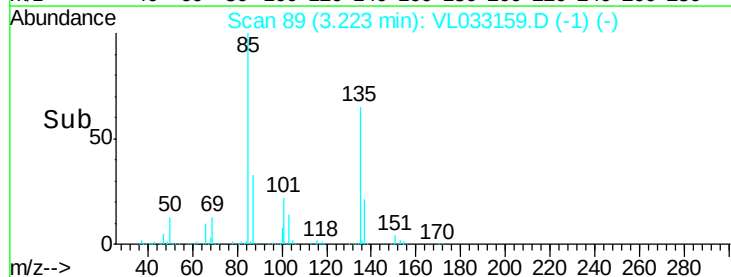
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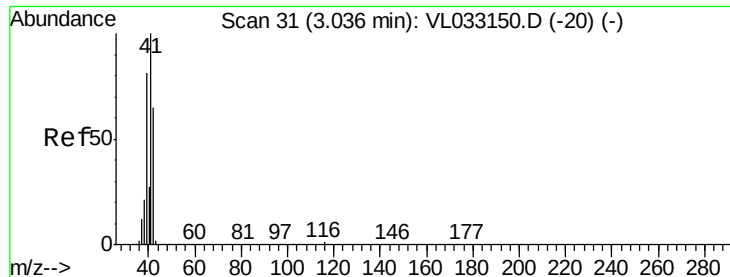
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500000

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Time-->





#9

Propene

Concen: 9.699 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

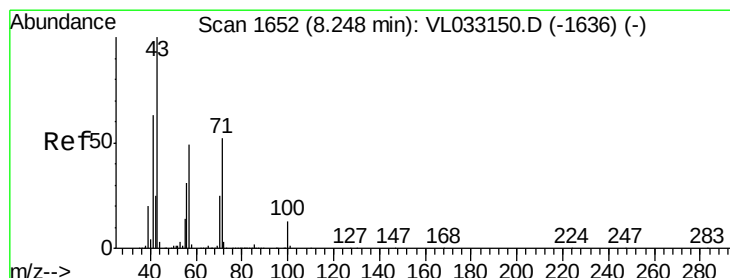
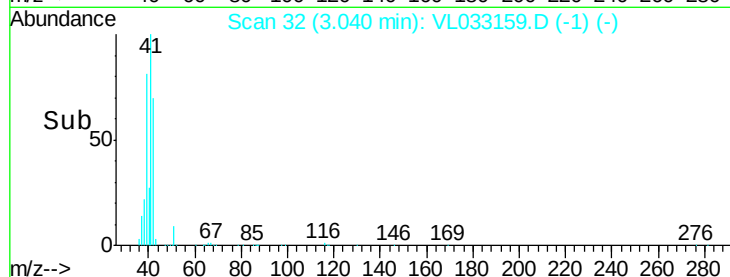
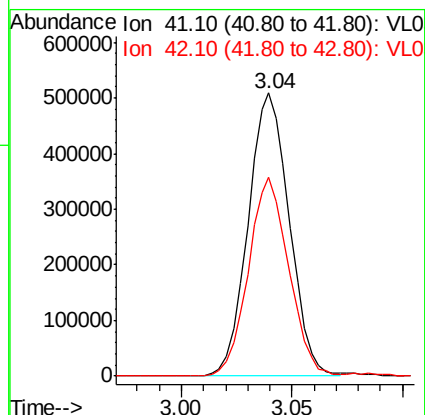
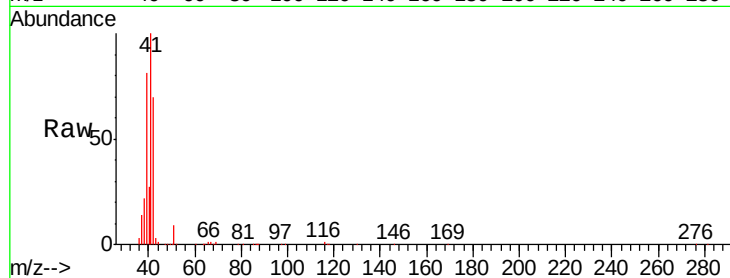
VL0204ABS01

Tgt Ion: 41 Resp: 657136

Ion Ratio Lower Upper

41 100

42 69.8 55.1 82.7



#10

Heptane

Concen: 7.972 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VL033159.D

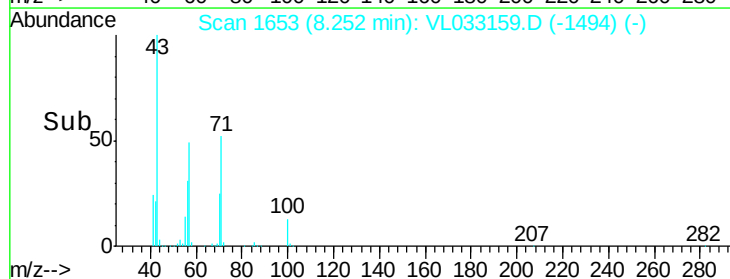
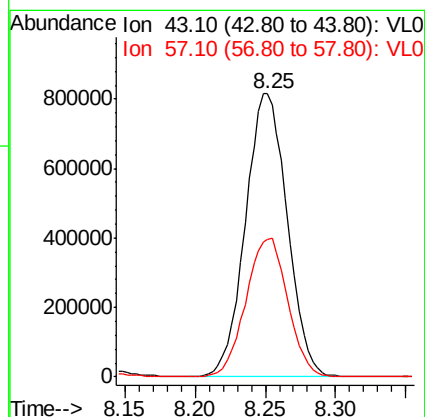
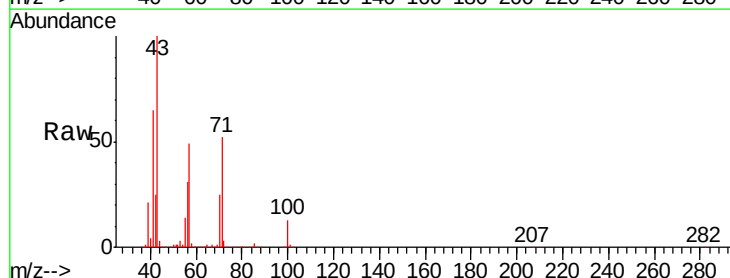
Acq: 4 Feb 2019 17:17

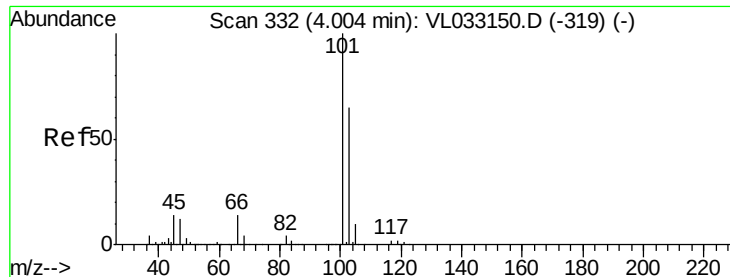
Tgt Ion: 43 Resp: 1682629

Ion Ratio Lower Upper

43 100

57 49.3 39.3 58.9

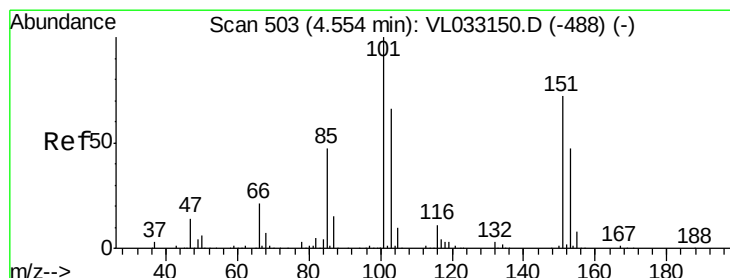
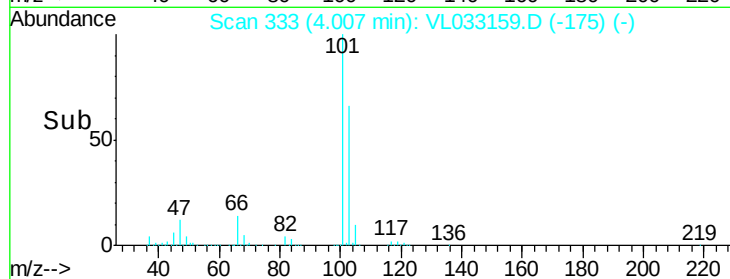
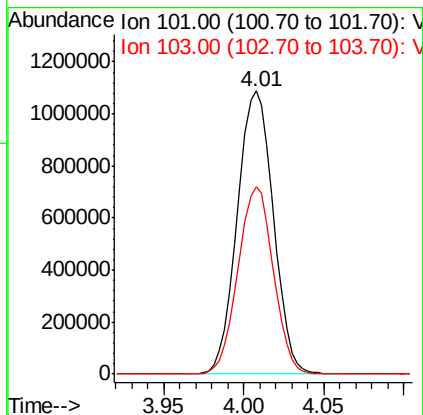
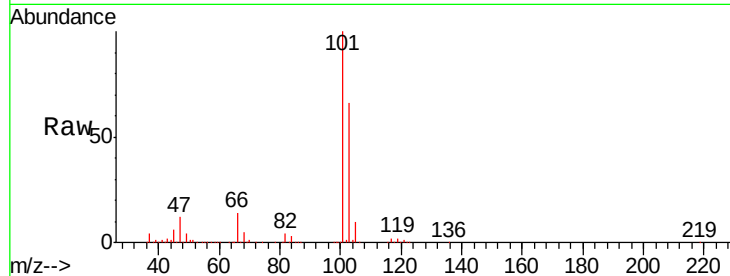




#11
 Trichlorofluoromethane
 Concen: 9.690 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

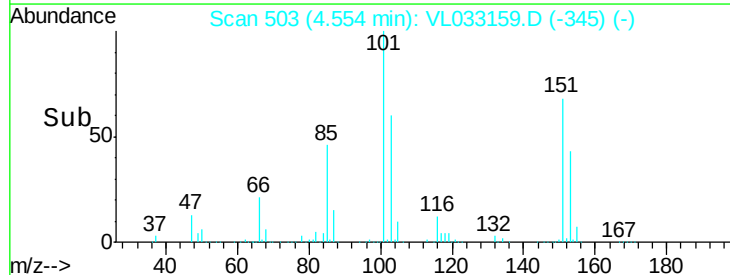
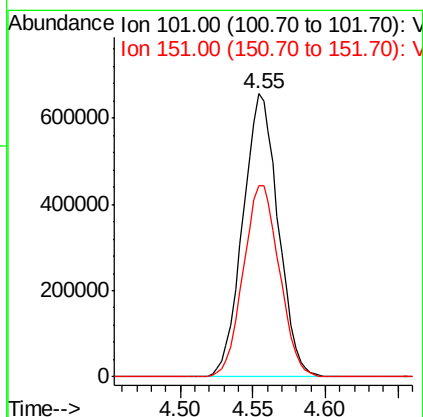
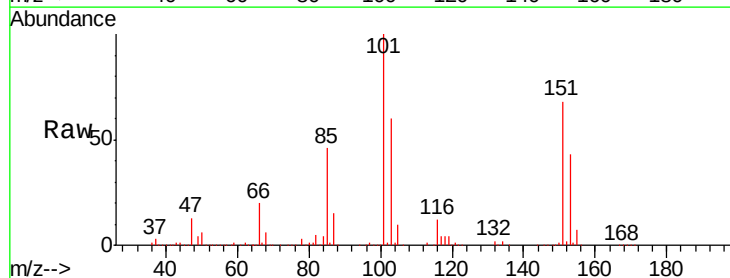
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

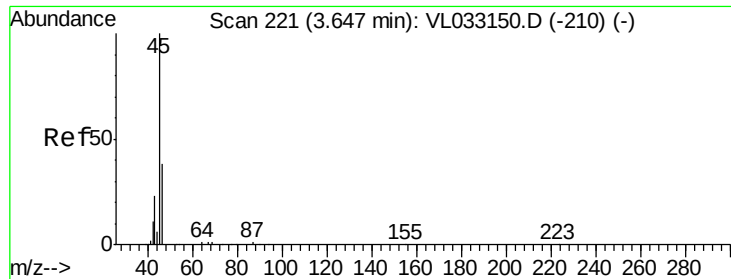
Tgt Ion:101 Resp: 1669256
 Ion Ratio Lower Upper
 101 100
 103 66.3 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.946 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion:101 Resp: 1112361
 Ion Ratio Lower Upper
 101 100
 151 69.2 57.9 86.9





#13

Ethanol

Concen: 5.355 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

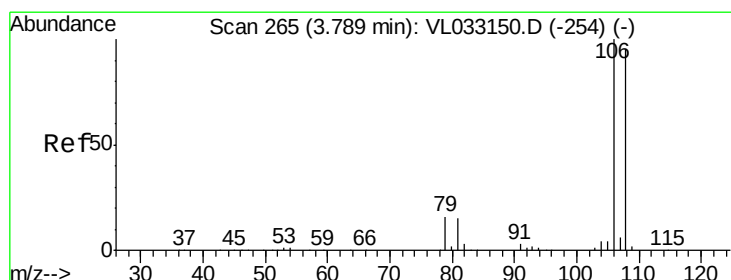
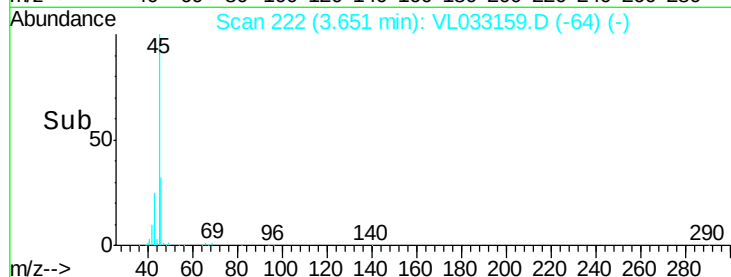
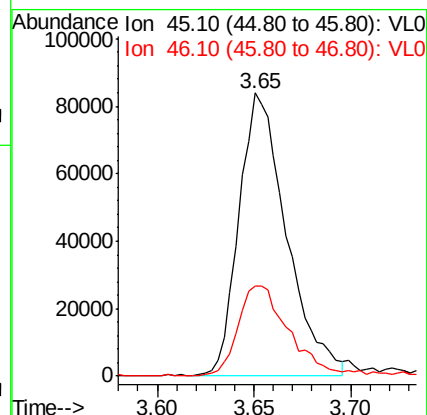
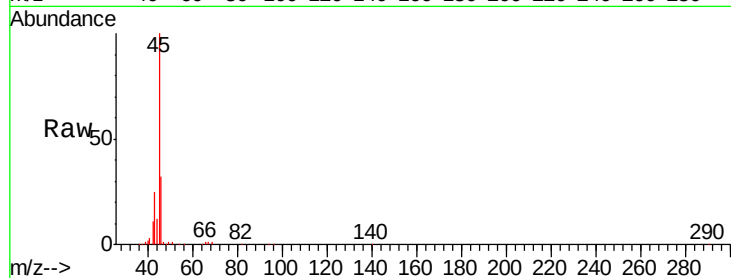
VL0204ABS01

Tgt Ion: 45 Resp: 143023

Ion Ratio Lower Upper

45 100

46 34.8 14.0 56.2



#14

Bromoethene

Concen: 9.872 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

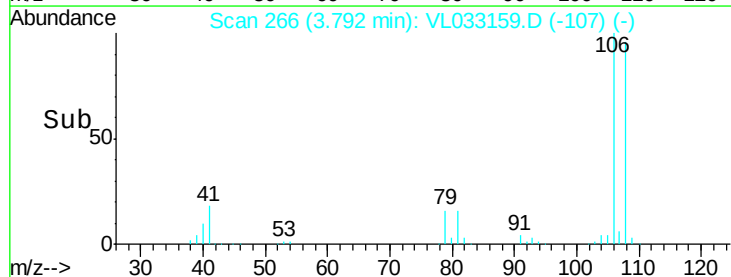
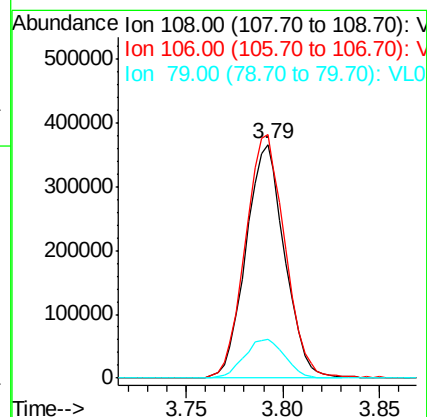
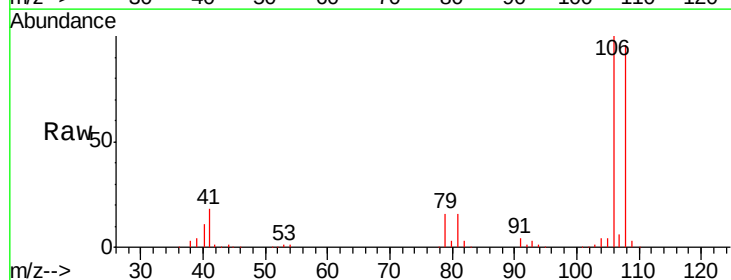
Tgt Ion: 108 Resp: 508973

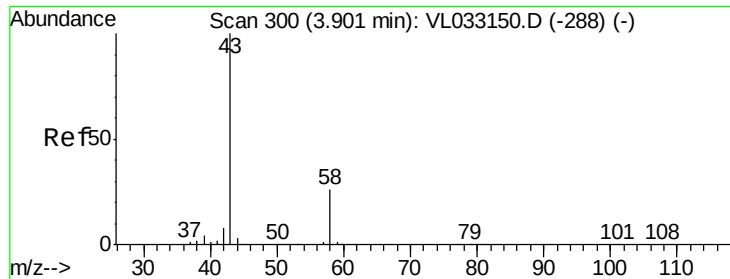
Ion Ratio Lower Upper

108 100

106 107.6 85.6 128.4

79 17.6 14.2 21.4





#15

Acetone

Concen: 8.146 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

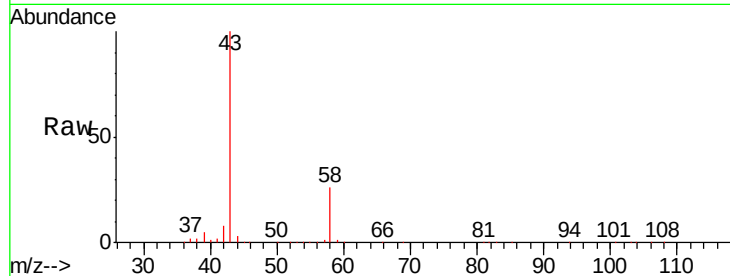
VL0204ABS01

Tgt Ion: 43 Resp: 1174277

Ion Ratio Lower Upper

43 100

58 26.1 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

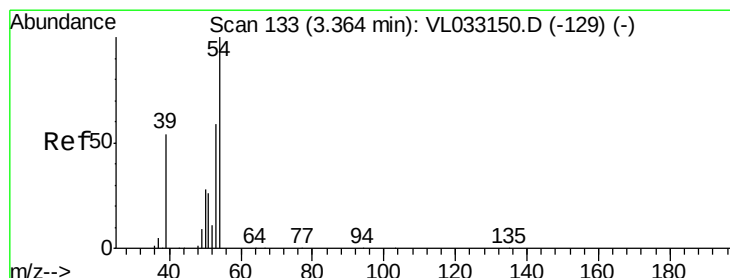
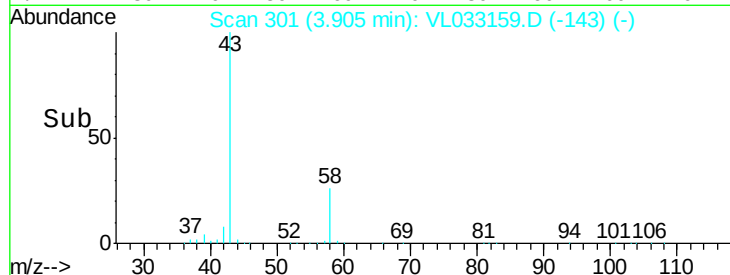
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.963 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.01 min

Lab File: VL033159.D

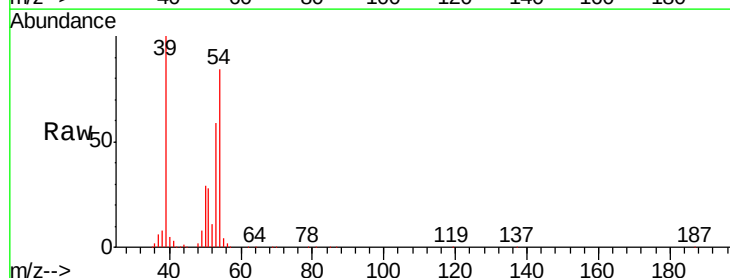
Acq: 4 Feb 2019 17:17

Tgt Ion: 39 Resp: 582985

Ion Ratio Lower Upper

39 100

54 95.6 75.0 112.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

500000

400000

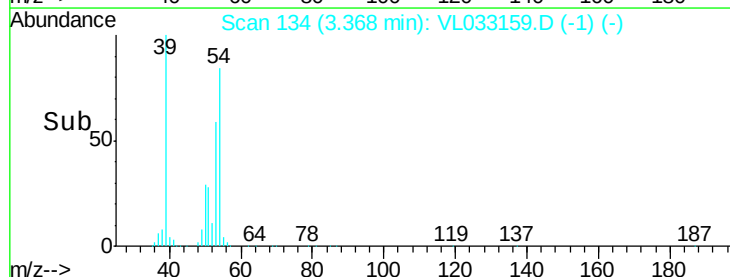
300000

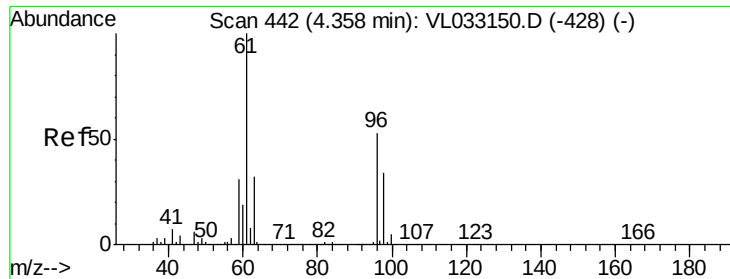
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 8.120 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

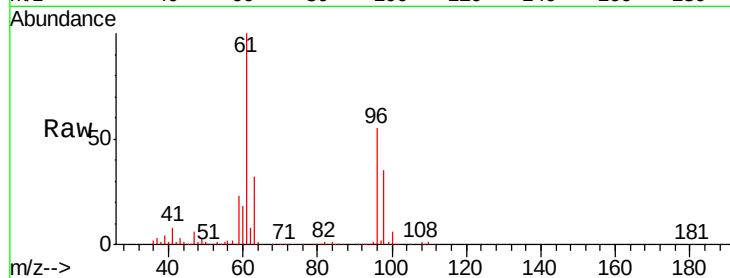
VL0204ABS01

Tgt Ion: 59 Resp: 258501

Ion Ratio Lower Upper

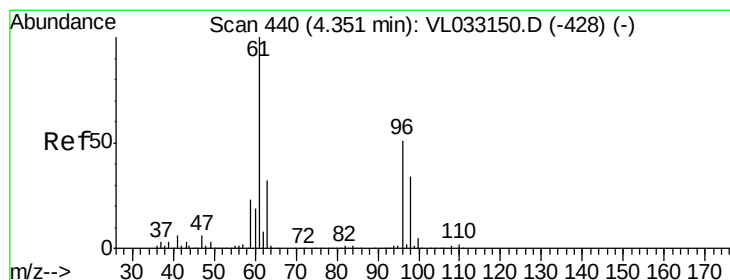
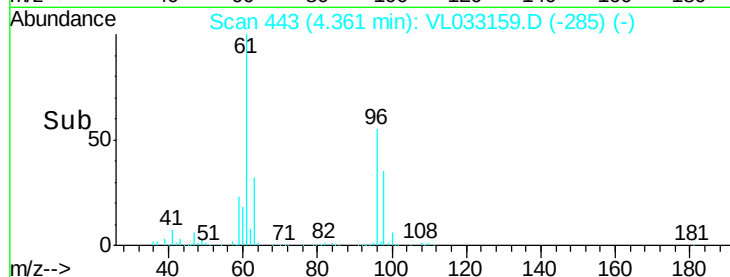
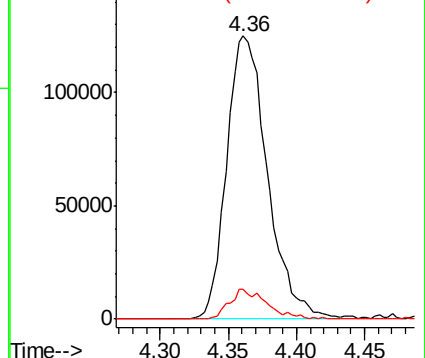
59 100

57 9.9 8.0 12.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 10.116 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

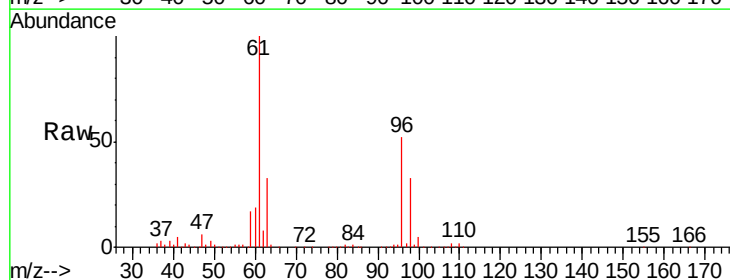
Tgt Ion: 96 Resp: 520606

Ion Ratio Lower Upper

96 100

61 192.9 158.5 237.7

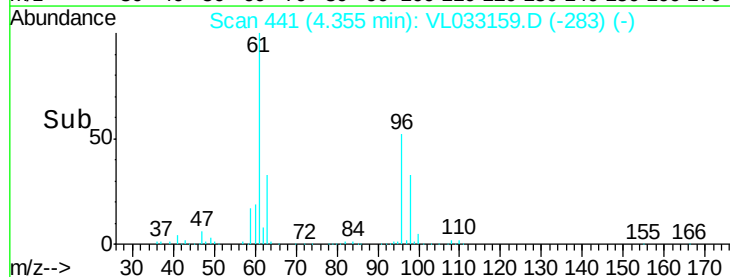
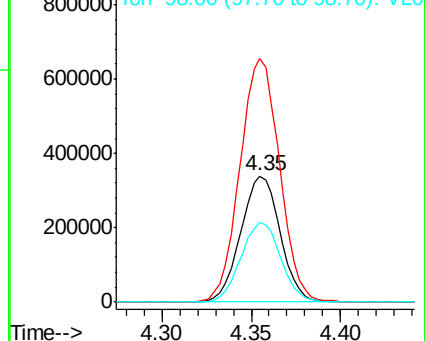
98 63.7 47.8 71.6

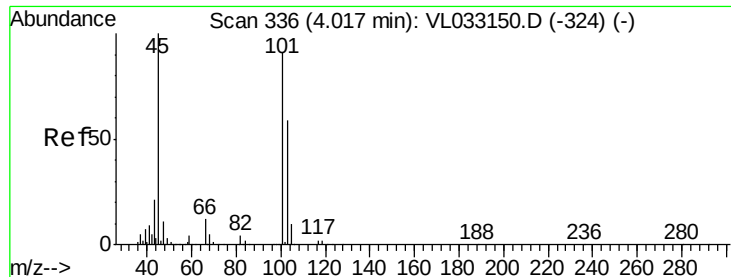


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.090 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

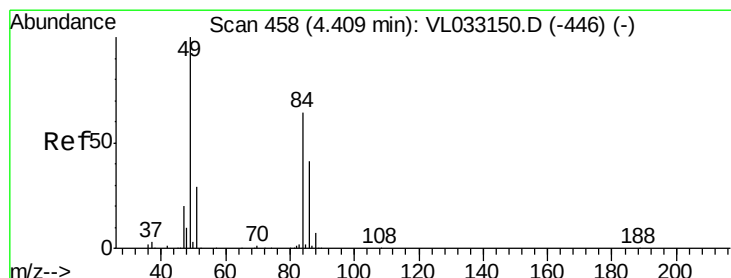
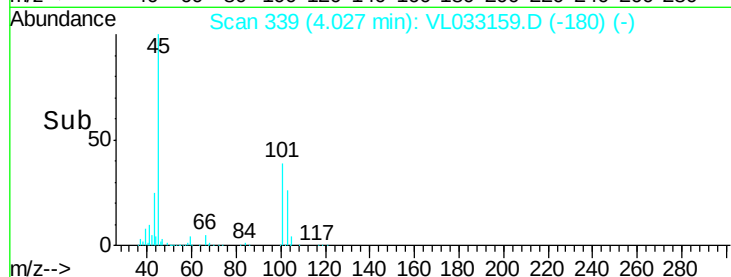
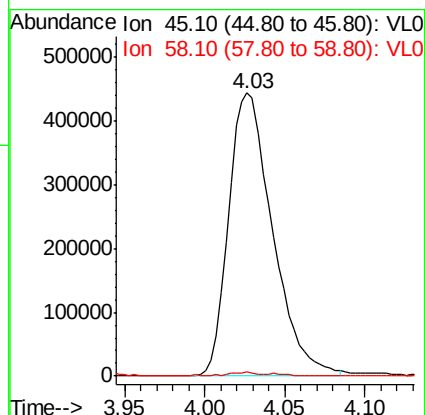
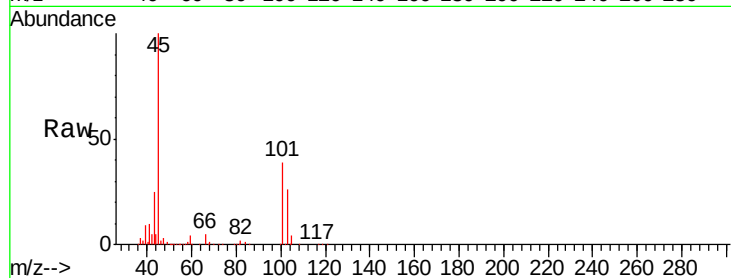
VL0204ABS01

Tgt Ion: 45 Resp: 828340

Ion Ratio Lower Upper

45 100

58 1.8 25.1 37.7#



#20

Methylene Chloride

Concen: 8.974 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Tgt Ion: 84 Resp: 445641

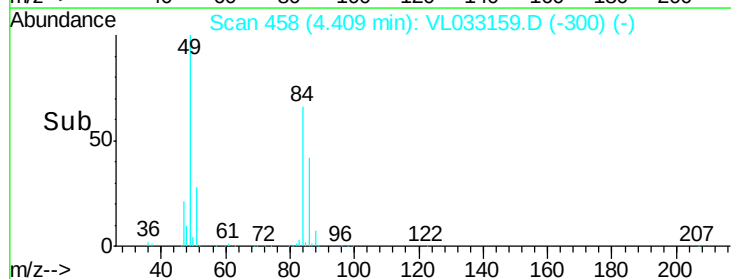
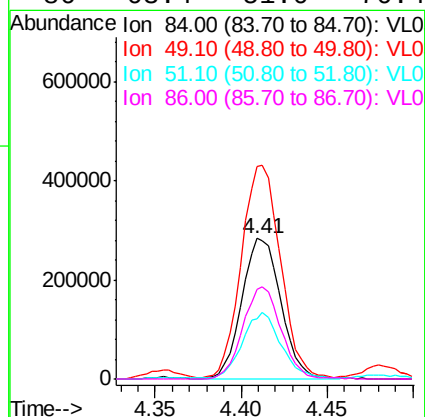
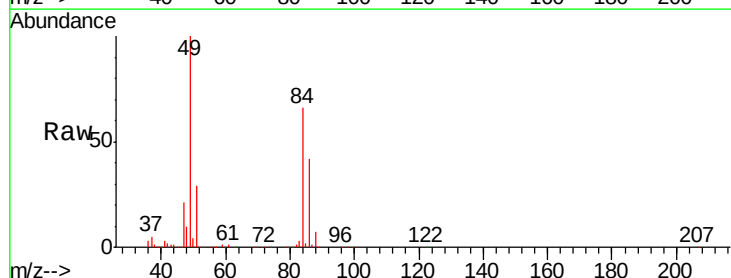
Ion Ratio Lower Upper

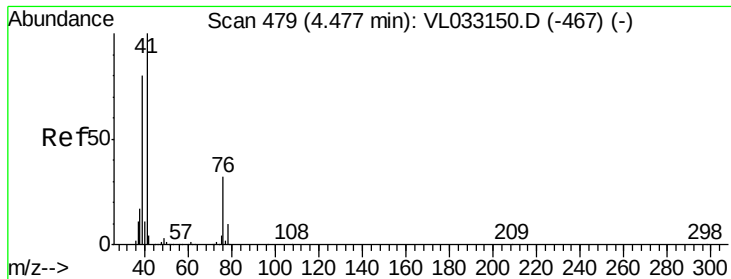
84 100

49 150.0 121.1 181.7

51 42.3 37.5 56.3

86 63.4 51.0 76.4

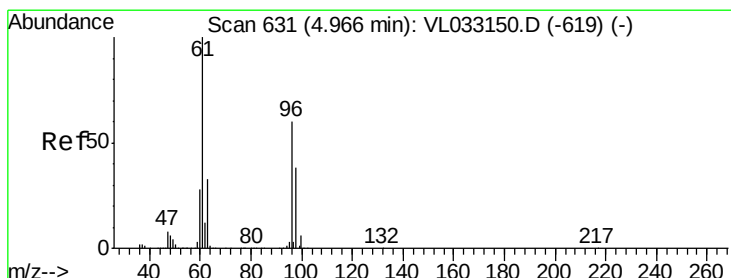
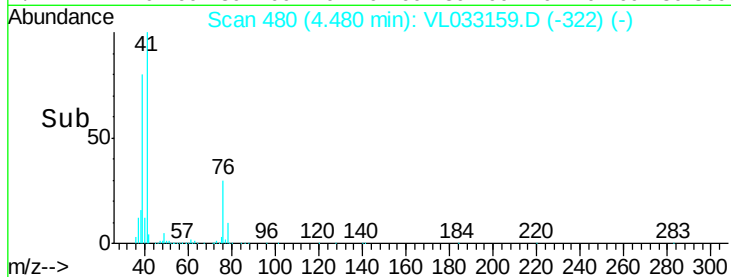
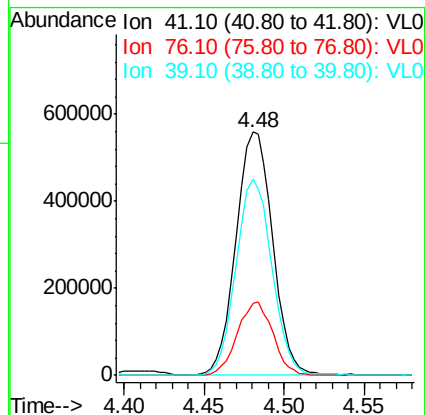
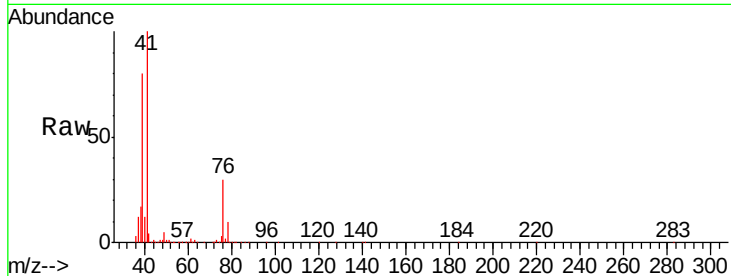




#21
 Allyl Chloride
 Concen: 10.002 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

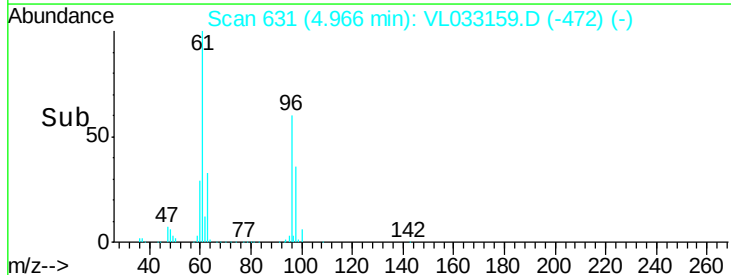
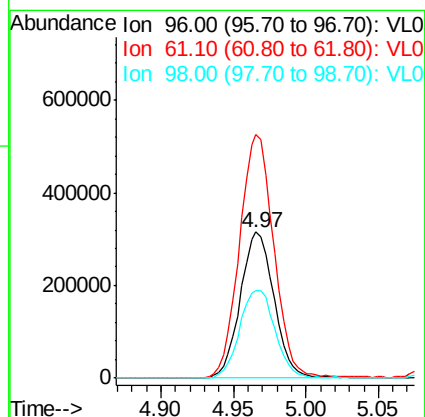
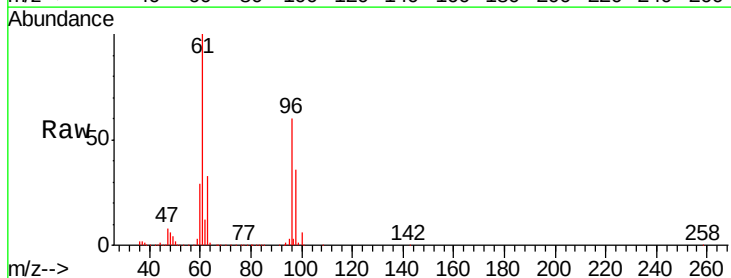
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

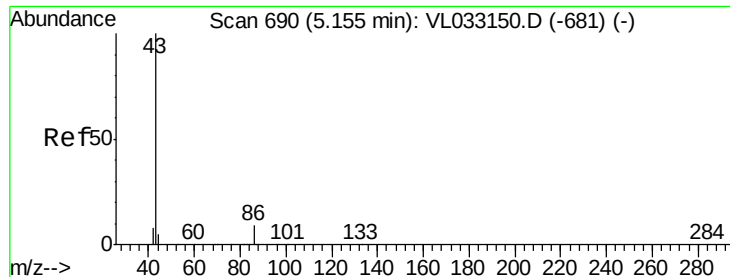
Tgt Ion: 41 Resp: 868154
 Ion Ratio Lower Upper
 41 100
 76 29.5 23.2 34.8
 39 78.8 61.8 92.6



#22
 trans-1,2-Dichloroethene
 Concen: 10.026 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion: 96 Resp: 509570
 Ion Ratio Lower Upper
 96 100
 61 167.0 134.5 201.7
 98 60.3 50.2 75.2





#23

Vinyl Acetate

Concen: 9.824 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tgt Ion: 43 Resp: 2303613

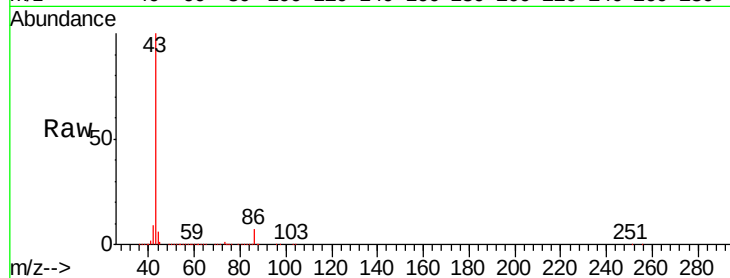
Ion Ratio Lower Upper

43 100

86 7.5 6.2 9.4

42 9.0 7.7 11.5

44 5.3 3.8 5.8

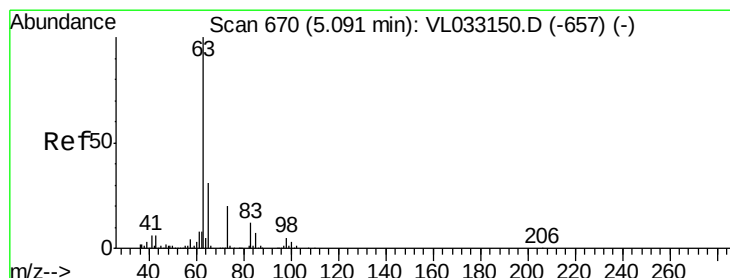
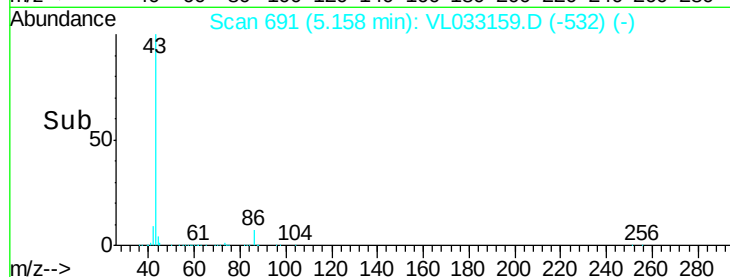
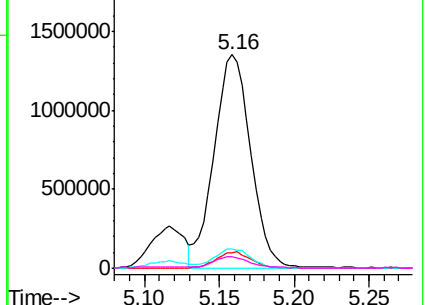


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.583 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

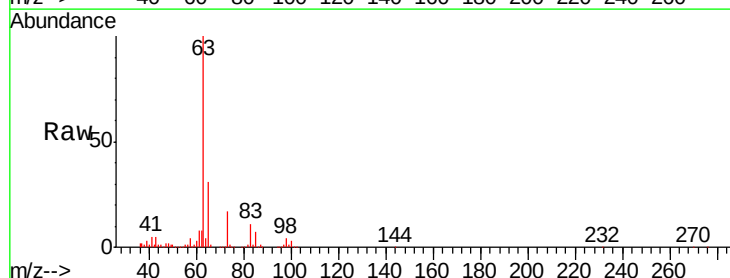
Tgt Ion: 63 Resp: 1533206

Ion Ratio Lower Upper

63 100

98 4.0 2.3 6.9

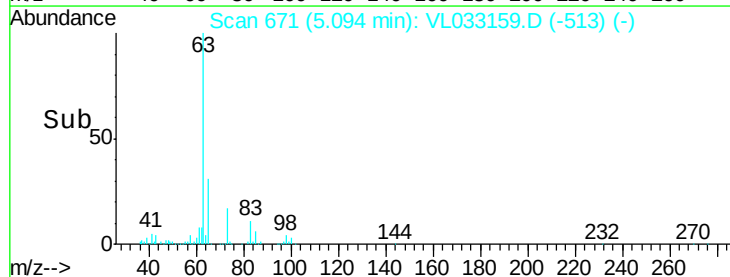
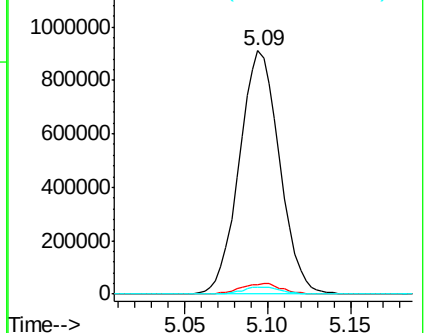
100 3.0 1.3 3.9

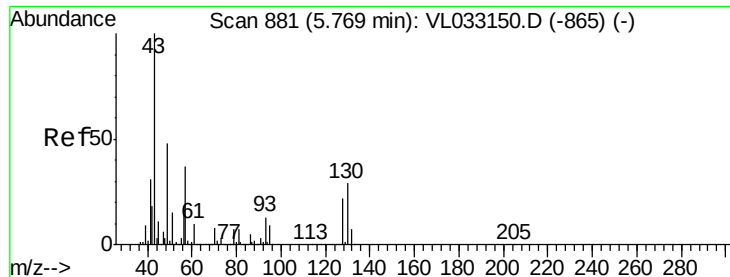


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.712 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tgt Ion: 43 Resp: 2595056

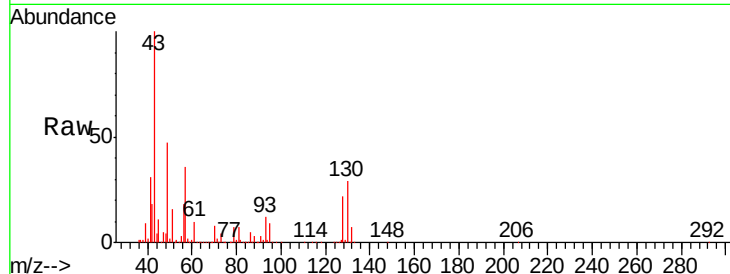
Ion Ratio Lower Upper

43 100

45 9.9 8.0 12.0

61 9.3 7.4 11.2

70 7.2 5.9 8.9

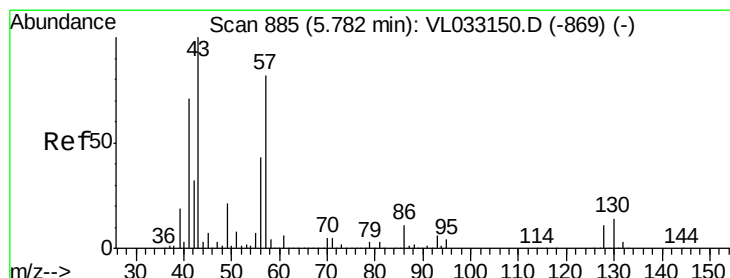
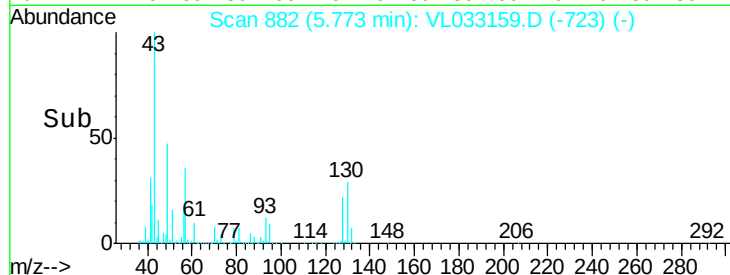
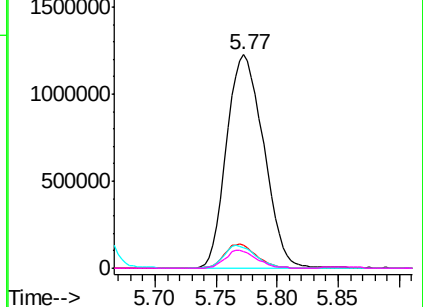


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.436 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Tgt Ion: 57 Resp: 1175684

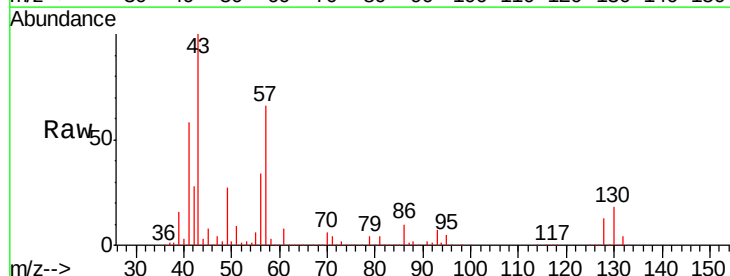
Ion Ratio Lower Upper

57 100

41 86.8 69.5 104.3

43 221.5 175.5 263.3

56 52.0 41.6 62.4

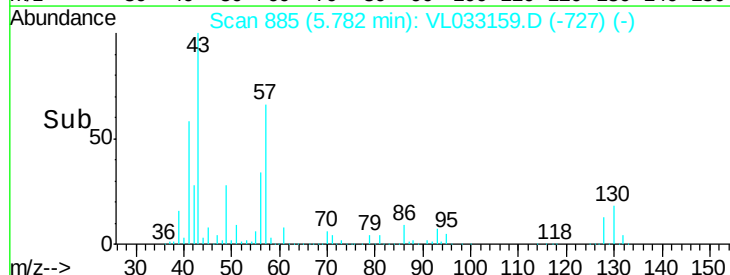
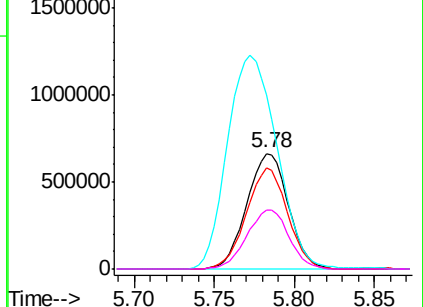


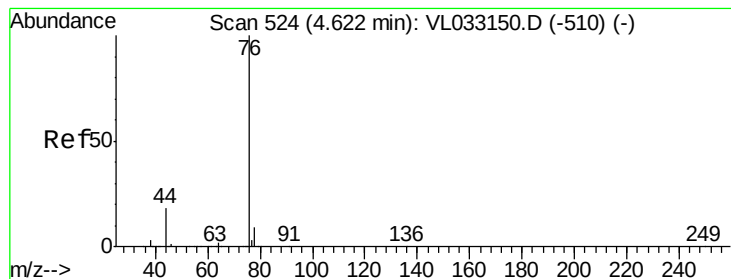
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.814 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

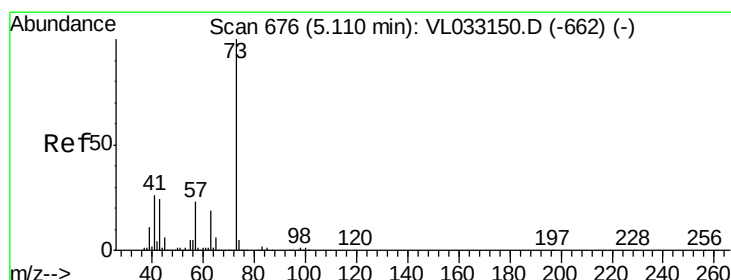
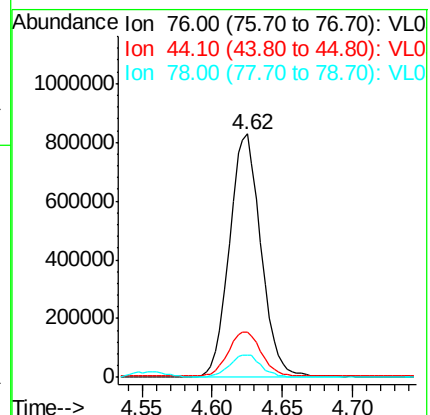
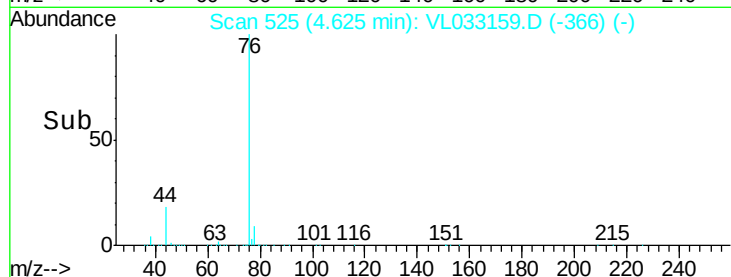
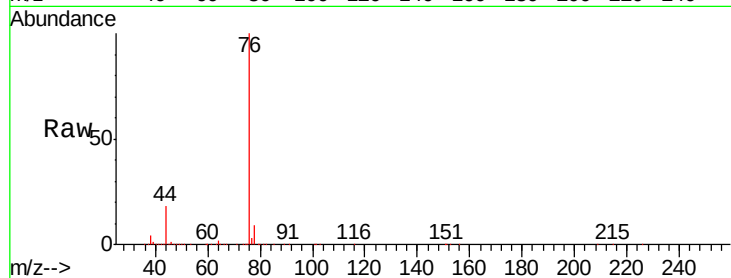
Tgt Ion: 76 Resp: 1297451

Ion Ratio Lower Upper

76 100

44 19.5 17.1 25.7

78 9.3 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 9.263 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033159.D

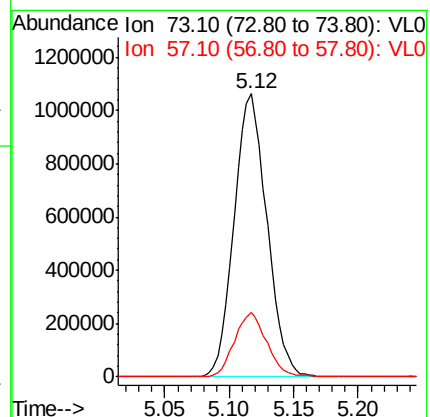
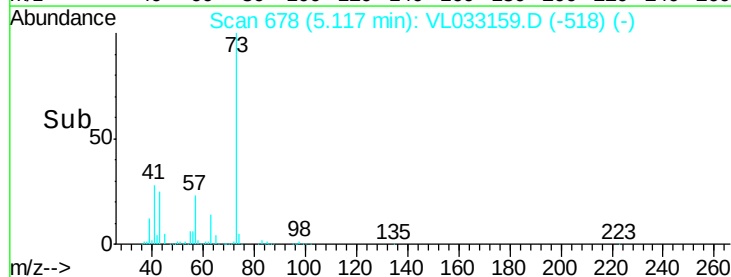
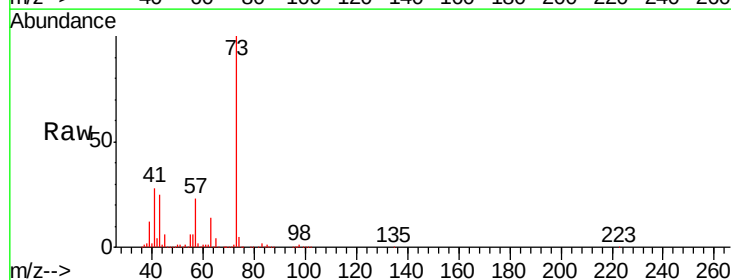
Acq: 4 Feb 2019 17:17

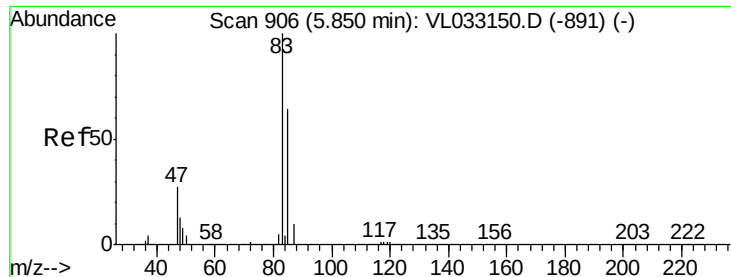
Tgt Ion: 73 Resp: 1878286

Ion Ratio Lower Upper

73 100

57 22.5 18.3 27.5





#29

Chloroform

Concen: 8.765 ppbv

RT: 5.85 min Scan# 907

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

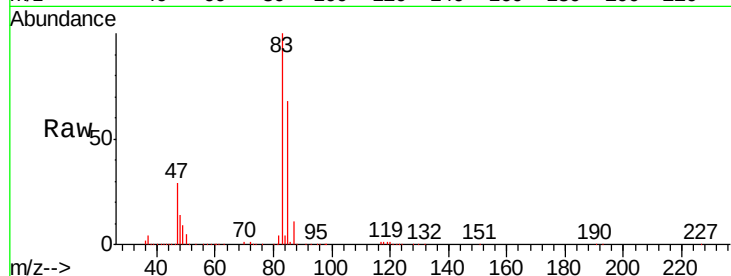
VL0204ABS01

Tgt Ion: 83 Resp: 1848082

Ion Ratio Lower Upper

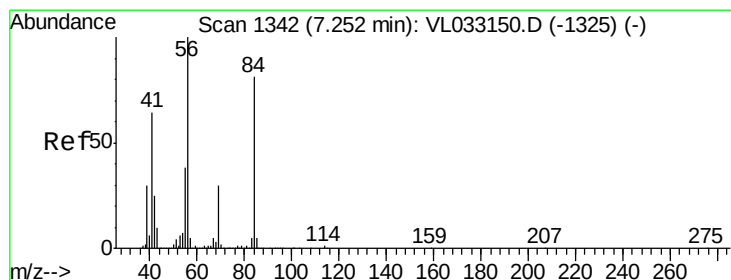
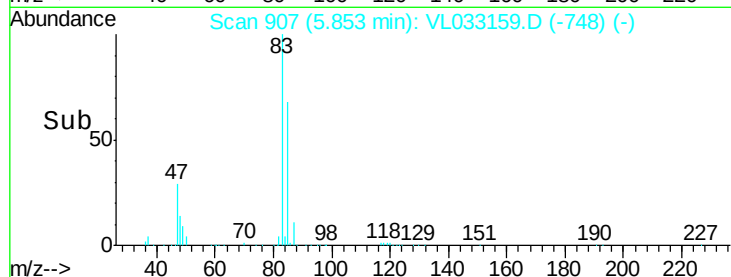
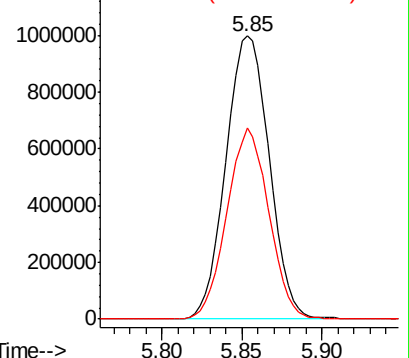
83 100

85 67.6 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 7.838 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

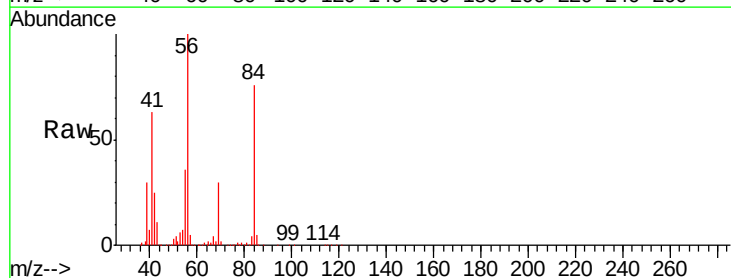
Tgt Ion: 84 Resp: 1048704

Ion Ratio Lower Upper

84 100

56 138.8 109.0 163.4

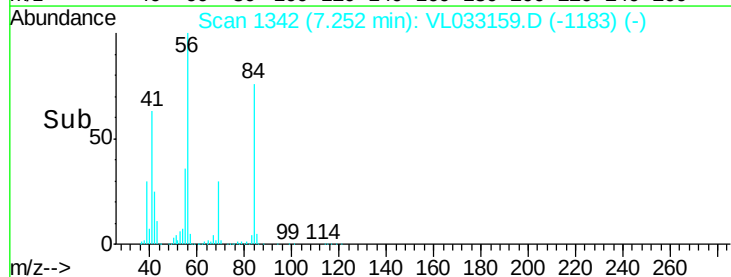
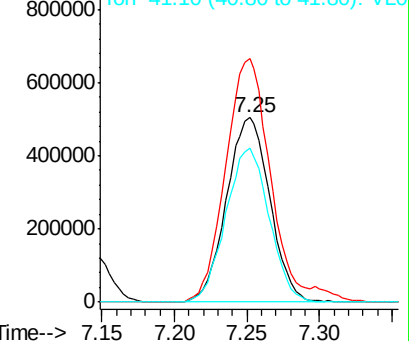
41 83.7 65.3 97.9

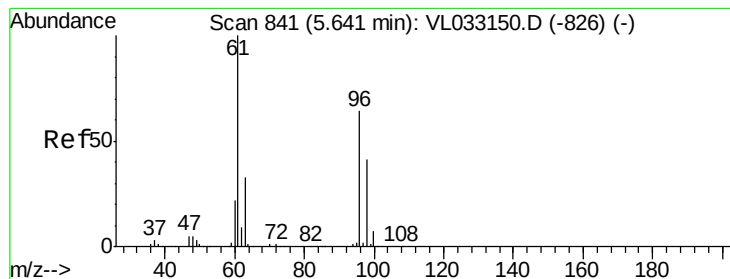


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



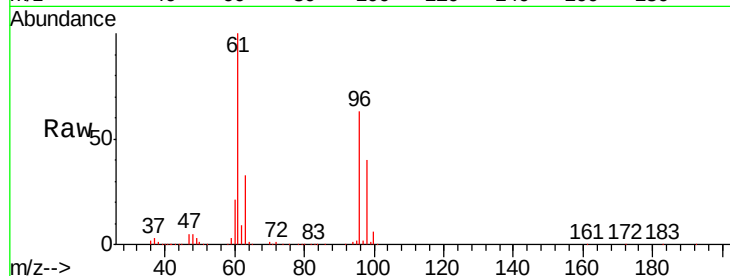


#31

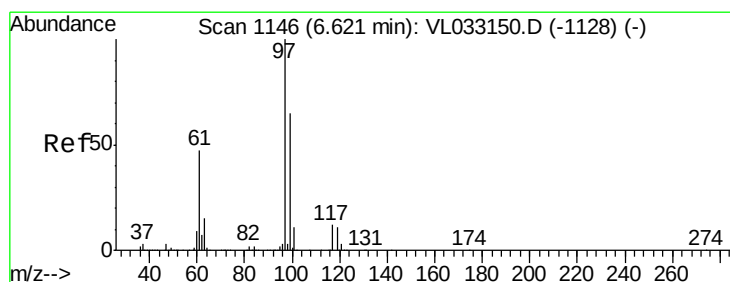
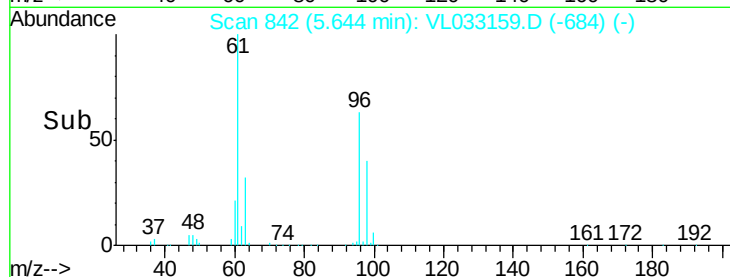
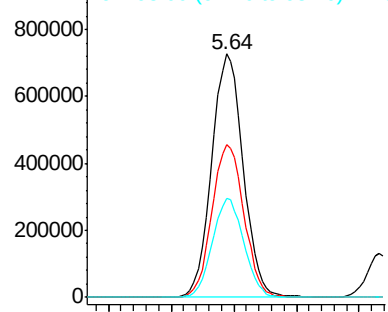
cis-1,2-Dichloroethene
 Concen: 9.565 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tgt Ion: 61 Resp: 1270452
 Ion Ratio Lower Upper
 61 100
 96 62.6 53.3 79.9
 98 40.4 33.7 50.5



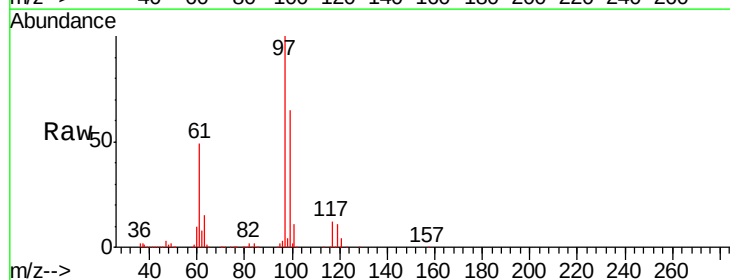
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



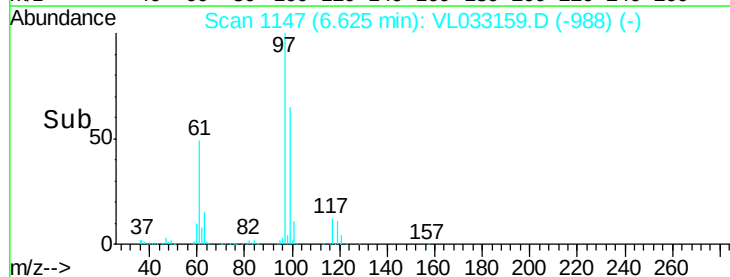
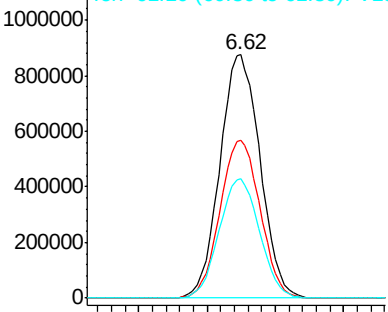
#32

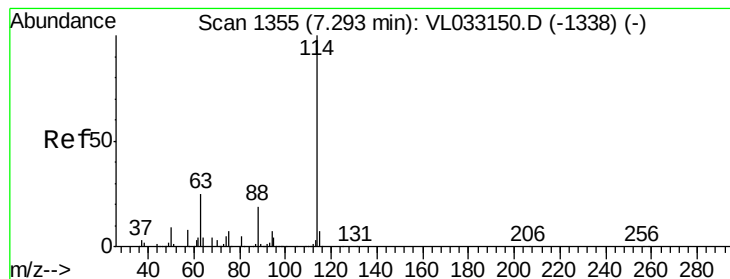
1,1,1-Trichloroethane
 Concen: 8.593 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion: 97 Resp: 1786060
 Ion Ratio Lower Upper
 97 100
 99 65.0 65.1 97.7#
 61 49.7 47.7 71.5



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

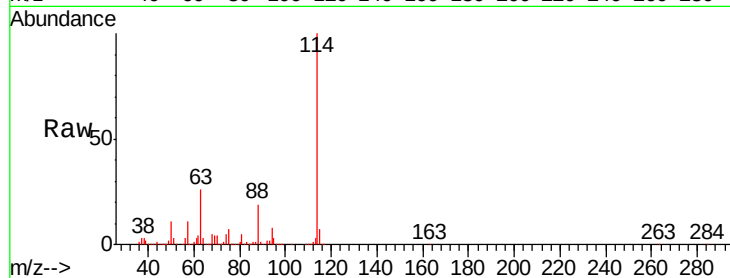
Tgt Ion:114 Resp: 2858549

Ion Ratio Lower Upper

114 100

63 26.9 20.0 30.0

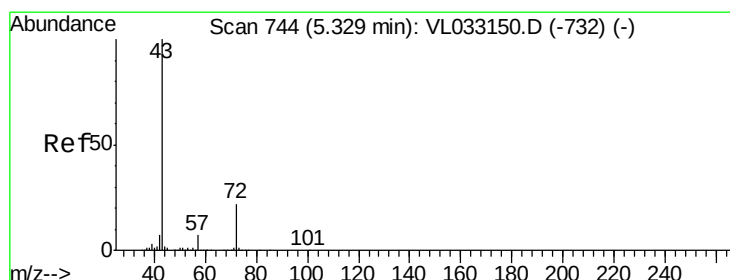
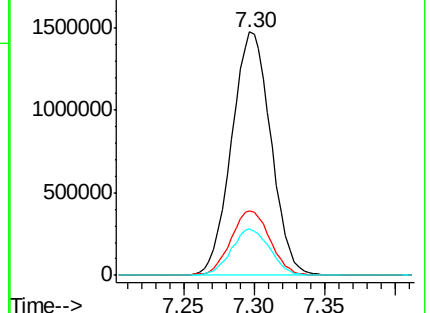
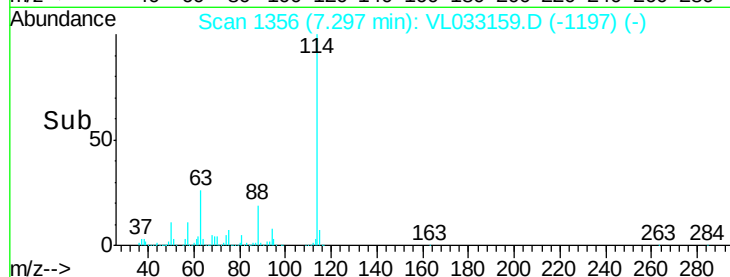
88 18.8 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.028 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033159.D

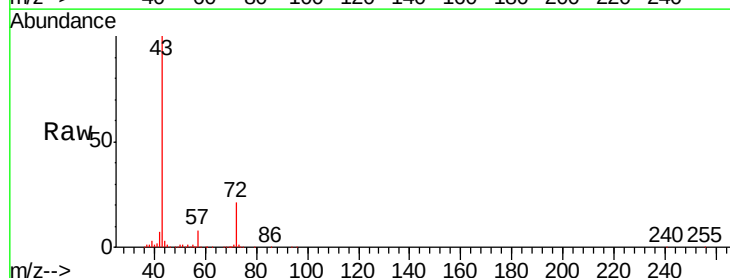
Acq: 4 Feb 2019 17:17

Tgt Ion: 43 Resp: 1802945

Ion Ratio Lower Upper

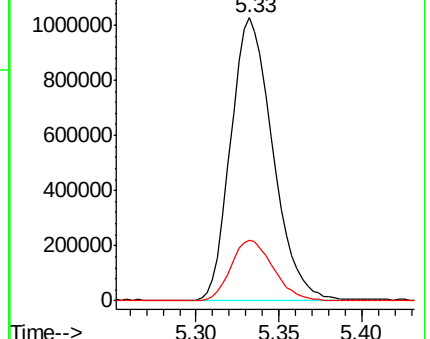
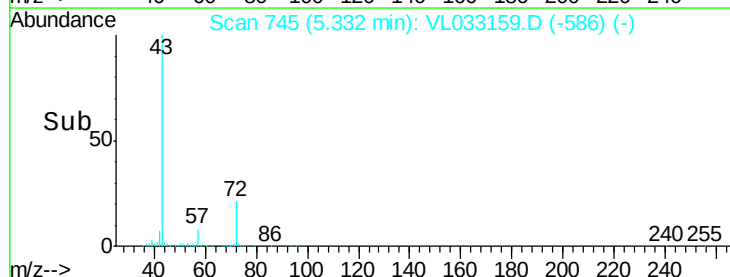
43 100

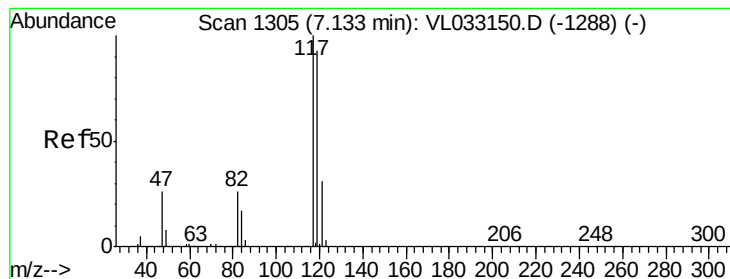
72 21.8 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.824 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

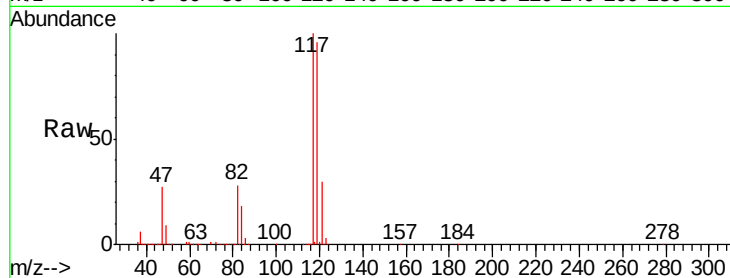
Tgt Ion:117 Resp: 1798425

Ion Ratio Lower Upper

117 100

119 96.2 76.6 114.8

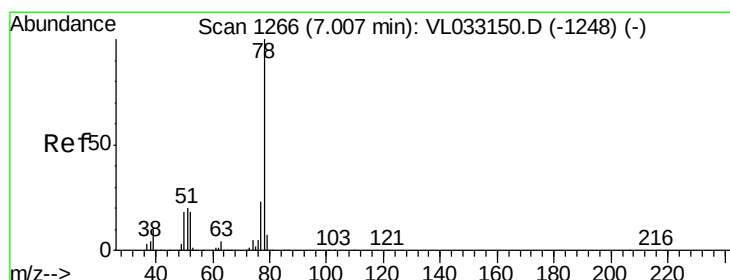
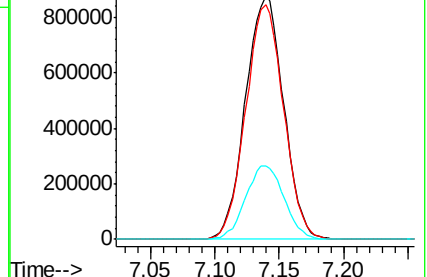
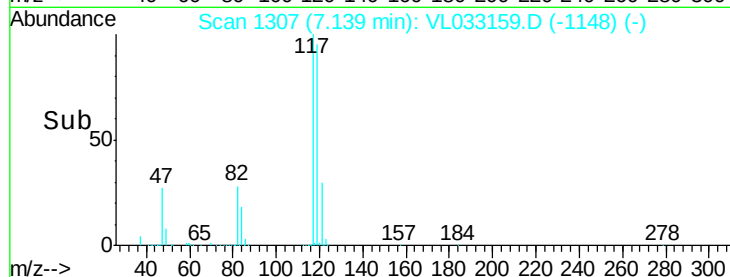
121 29.9 25.0 37.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.910 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

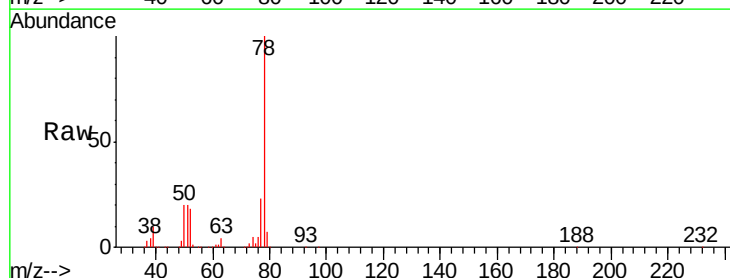
Tgt Ion: 78 Resp: 2574902

Ion Ratio Lower Upper

78 100

77 22.8 17.8 26.6

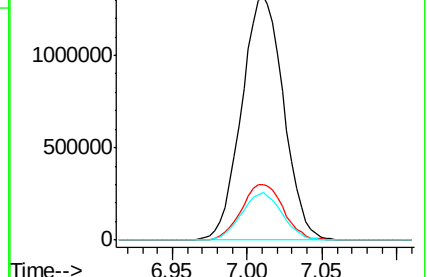
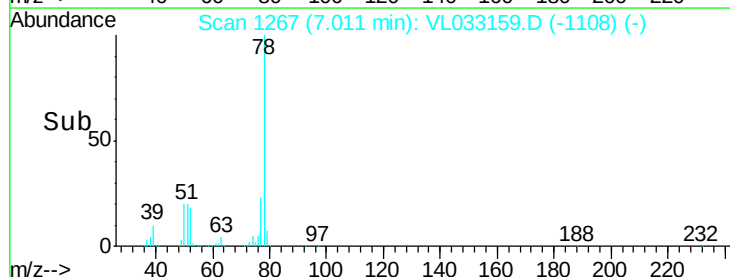
50 19.5 14.7 22.1

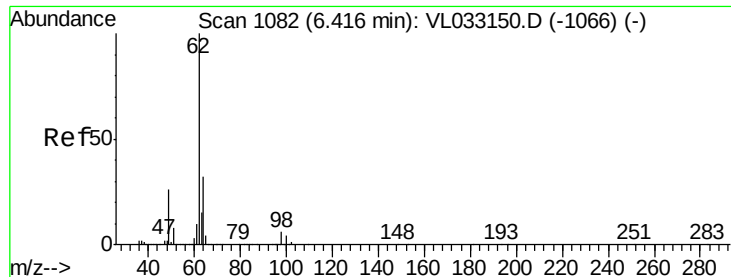


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

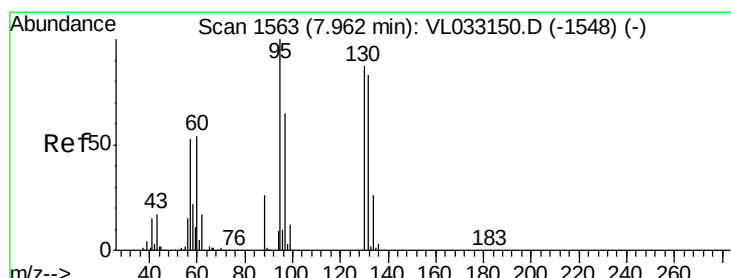
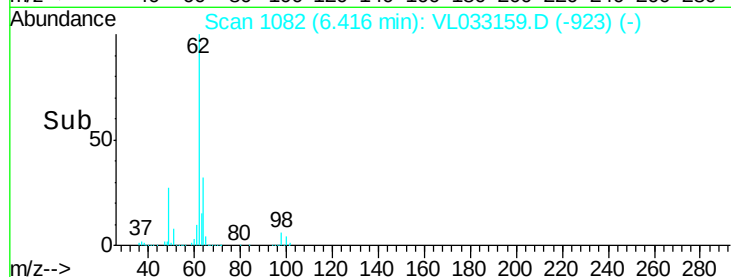
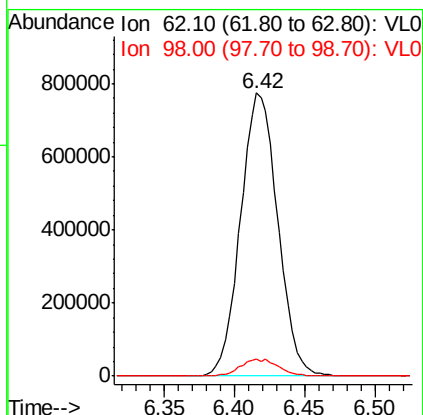
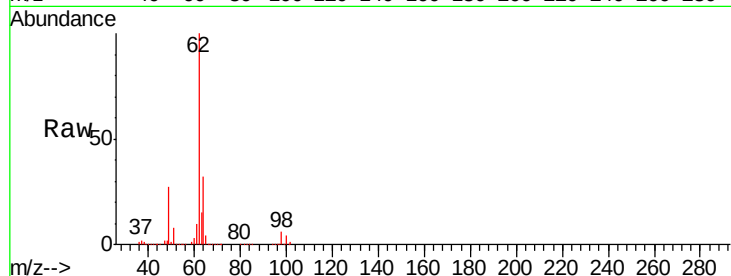




#37
 1,2-Dichloroethane
 Concen: 9.697 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

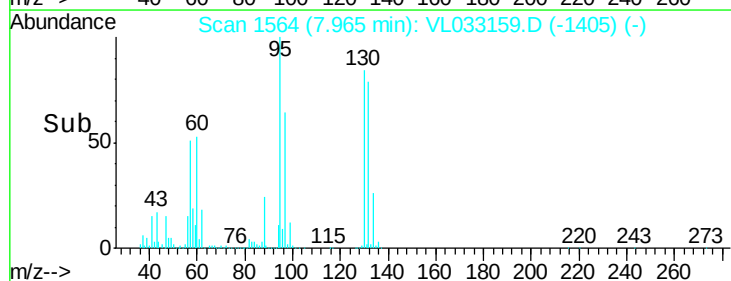
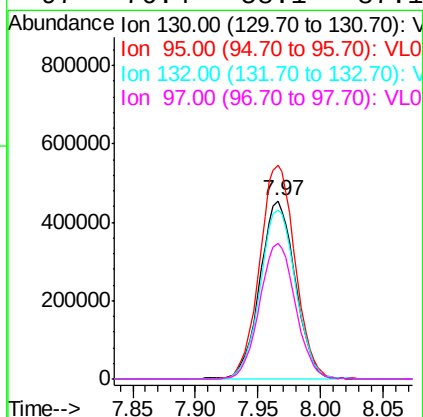
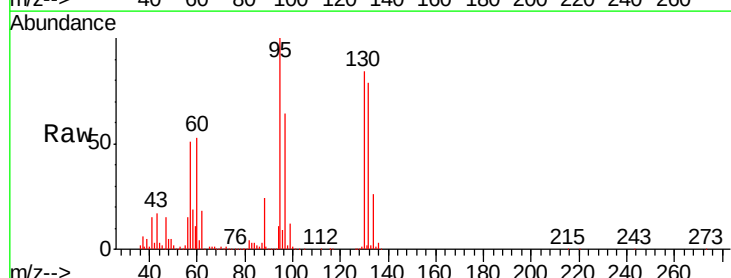
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

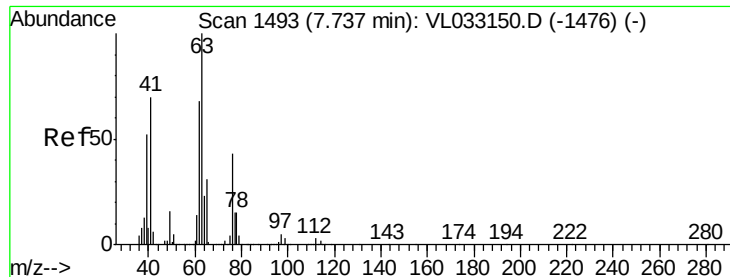
Tgt Ion: 62 Resp: 1431231
 Ion Ratio Lower Upper
 62 100
 98 6.2 5.3 7.9



#38
 Trichloroethene
 Concen: 8.516 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion: 130 Resp: 893803
 Ion Ratio Lower Upper
 130 100
 95 119.7 91.6 137.4
 132 94.9 79.0 118.4
 97 76.4 58.1 87.1





#39

1,2-Dichloropropane

Concen: 9.165 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

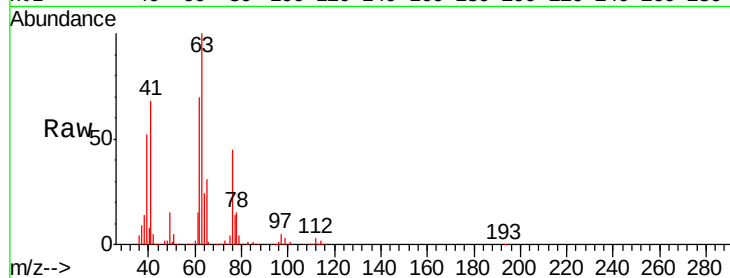
Tgt Ion: 63 Resp: 1015831

Ion Ratio Lower Upper

63 100

41 68.3 53.2 79.8

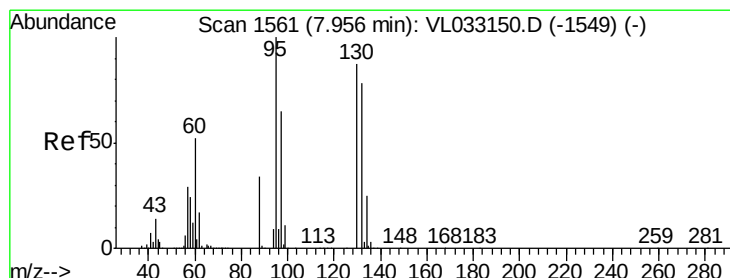
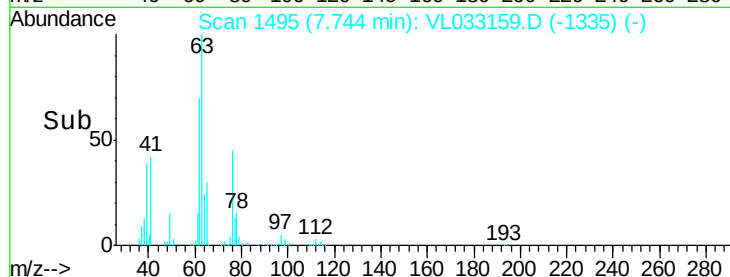
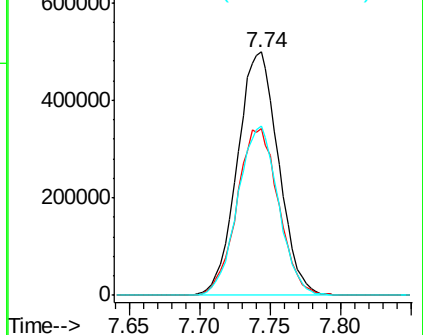
62 69.7 54.4 81.6



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 7.606 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Tgt Ion: 88 Resp: 328837

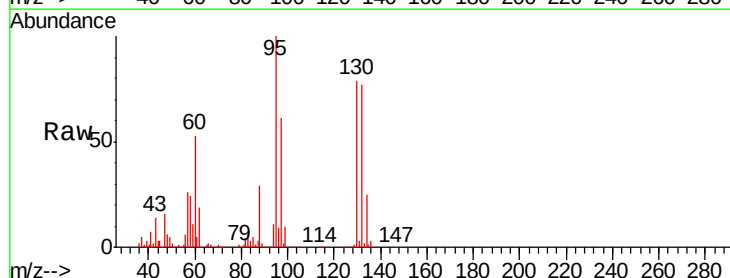
Ion Ratio Lower Upper

88 100

58 136.7 103.4 155.2

43 0.0 210.8 316.2#

57 0.0 933.2 1399.8#

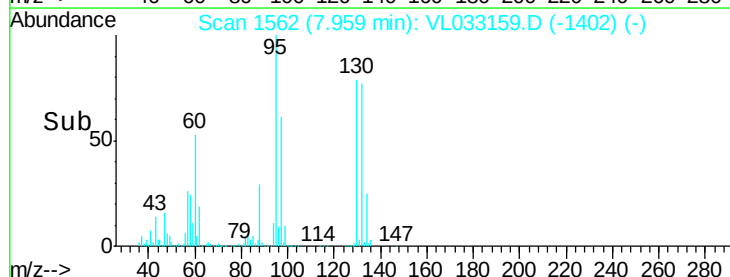
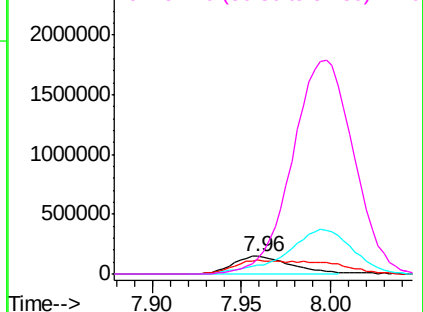


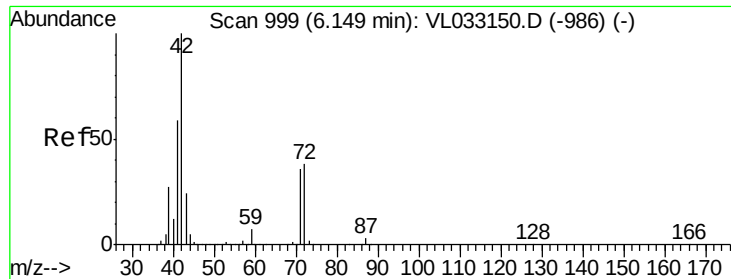
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

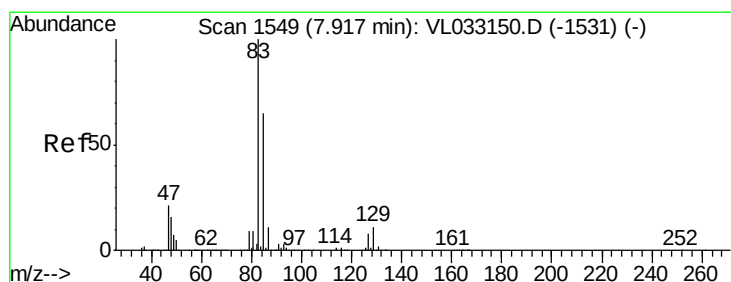
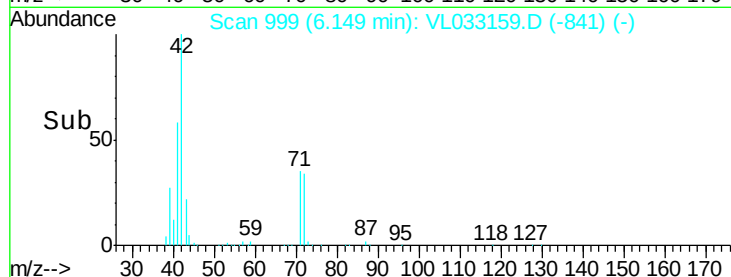
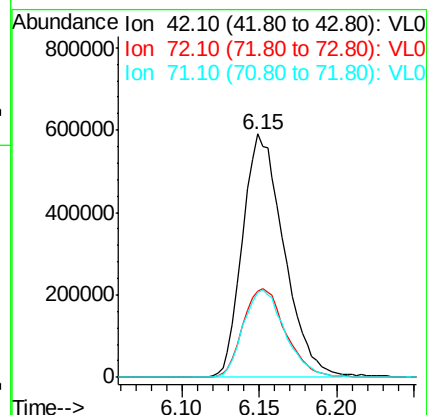
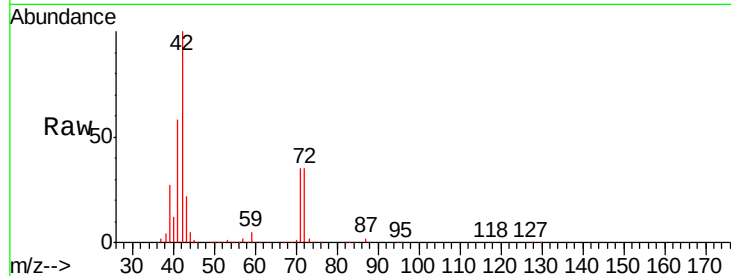




#41
Tetrahydrofuran
Concen: 9.839 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.01 min
Lab File: VL033159.D
Acq: 4 Feb 2019 17:17

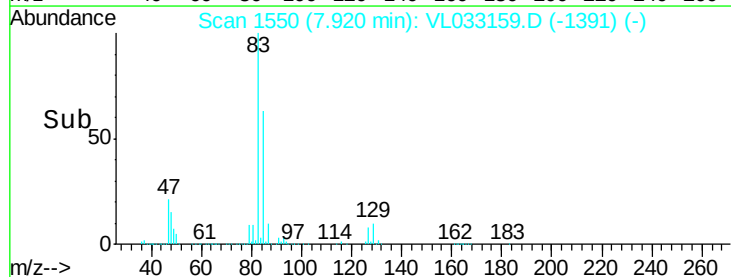
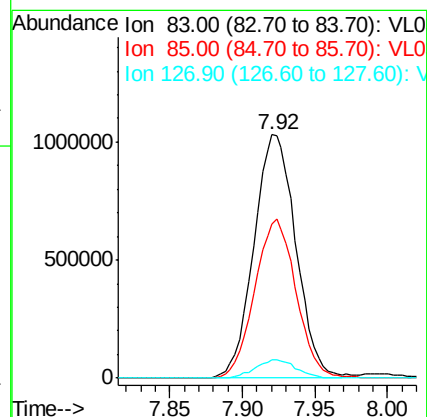
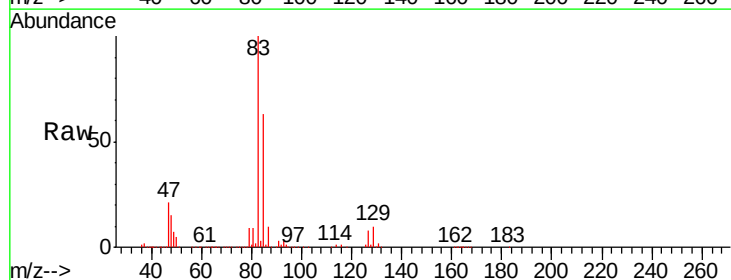
Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

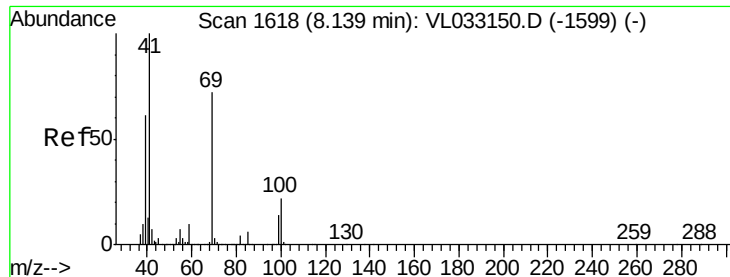
Tgt Ion: 42 Resp: 1098966
Ion Ratio Lower Upper
42 100
72 38.0 30.2 45.4
71 36.6 28.8 43.2



#42
Bromodichloromethane
Concen: 9.586 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. 0.01 min
Lab File: VL033159.D
Acq: 4 Feb 2019 17:17

Tgt Ion: 83 Resp: 2070503
Ion Ratio Lower Upper
83 100
85 63.3 51.3 76.9
127 7.8 6.1 9.1

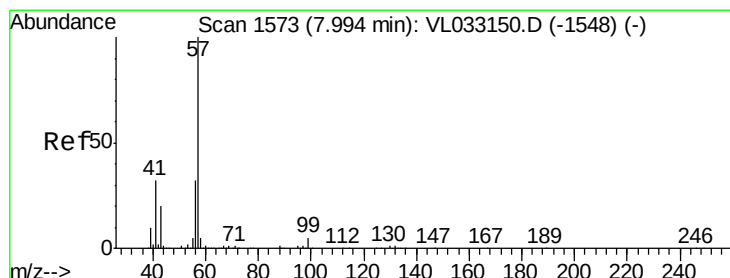
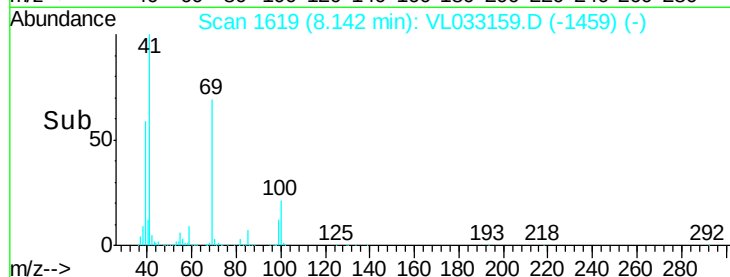
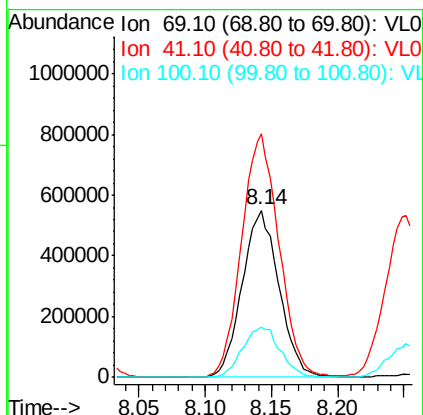
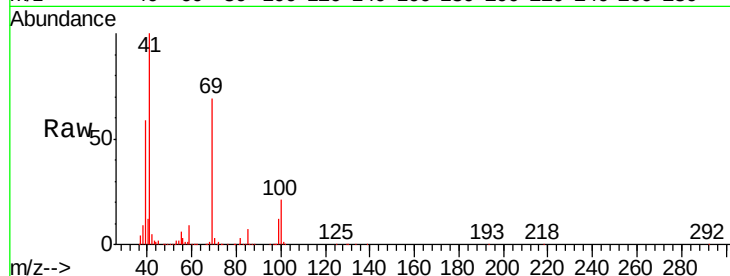




#43
Methyl Methacrylate
Concen: 9.247 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL033159.D
Acq: 4 Feb 2019 17:17

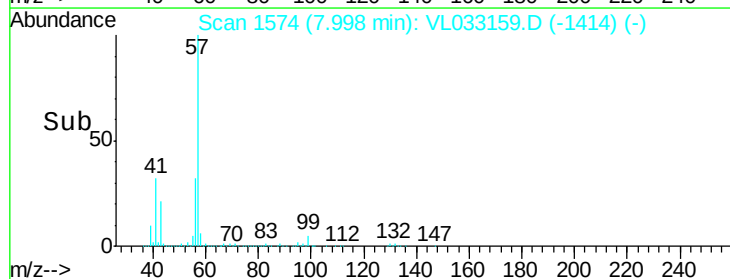
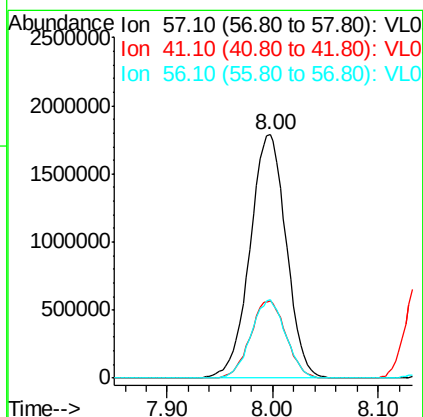
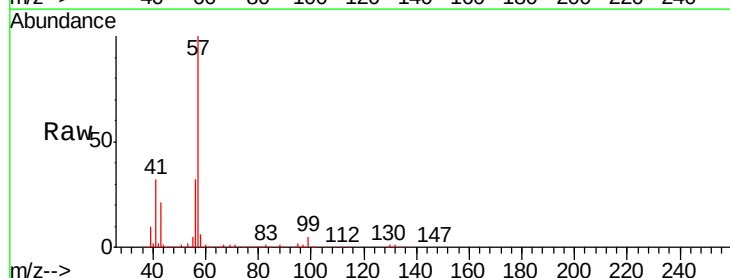
Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

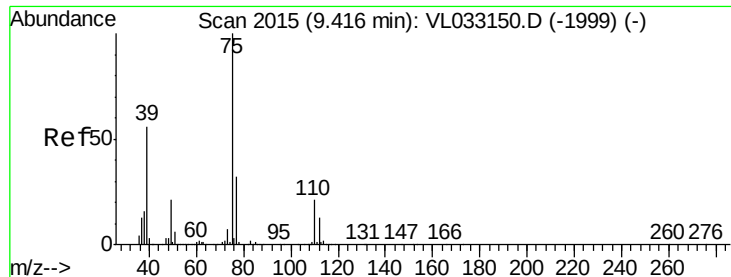
Tgt Ion: 69 Resp: 1062929
Ion Ratio Lower Upper
69 100
41 147.7 118.4 177.6
100 30.8 26.5 39.7



#44
2,2,4-Trimethylpentane
Concen: 8.822 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VL033159.D
Acq: 4 Feb 2019 17:17

Tgt Ion: 57 Resp: 4278035
Ion Ratio Lower Upper
57 100
41 31.3 24.6 36.8
56 30.9 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 9.748 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

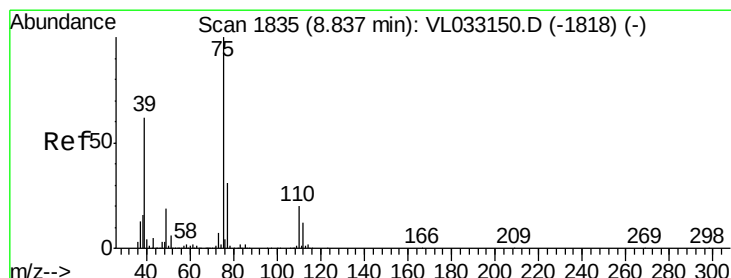
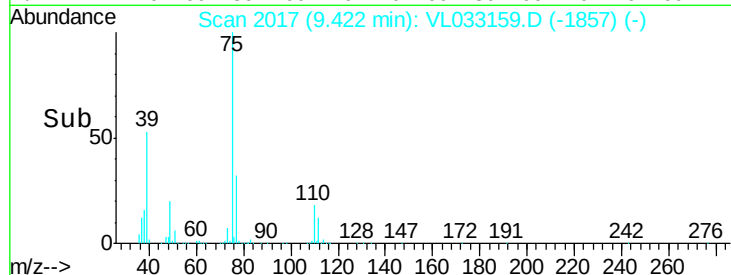
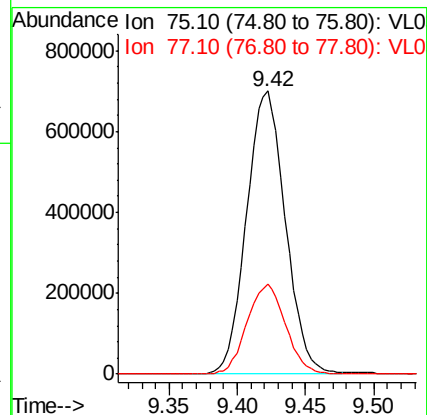
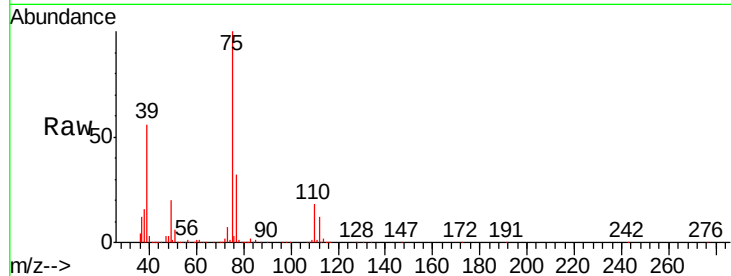
VL0204ABS01

Tgt Ion: 75 Resp: 1382876

Ion Ratio Lower Upper

75 100

77 31.7 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 9.364 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

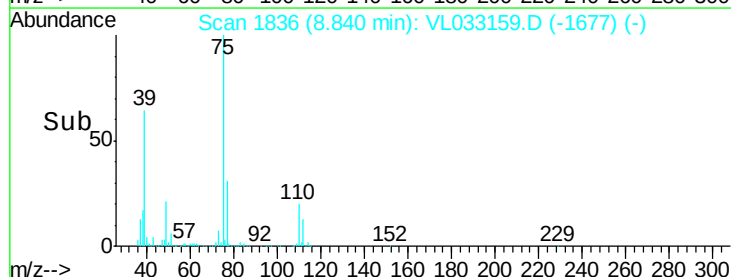
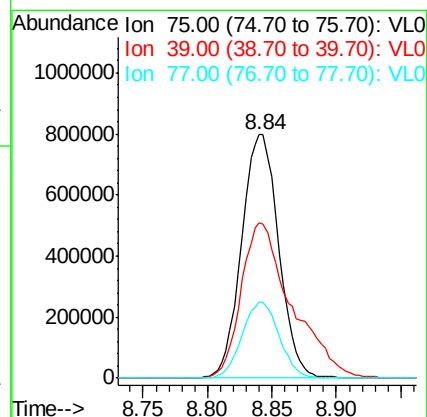
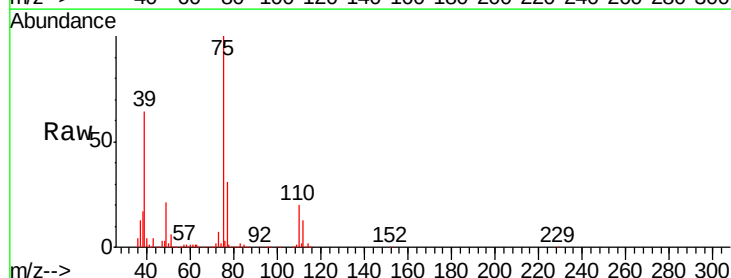
Tgt Ion: 75 Resp: 1597838

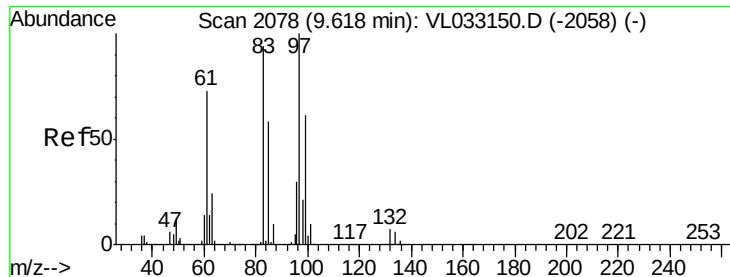
Ion Ratio Lower Upper

75 100

39 63.5 51.4 77.2

77 31.4 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 8.662 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tgt Ion: 97 Resp: 1030727

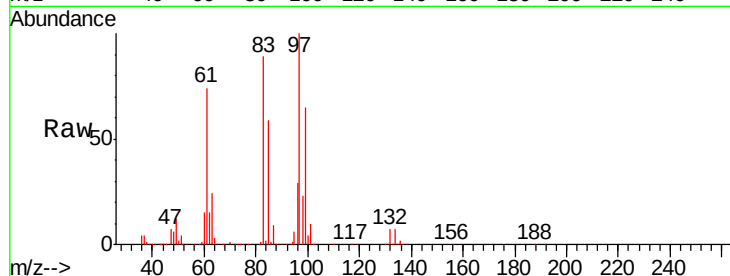
Ion	Ratio	Lower	Upper
97	100		
83	89.2	65.8	98.8
85	58.8	44.7	67.1
99	64.8	48.6	73.0

97 100

83 89.2 65.8 98.8

85 58.8 44.7 67.1

99 64.8 48.6 73.0

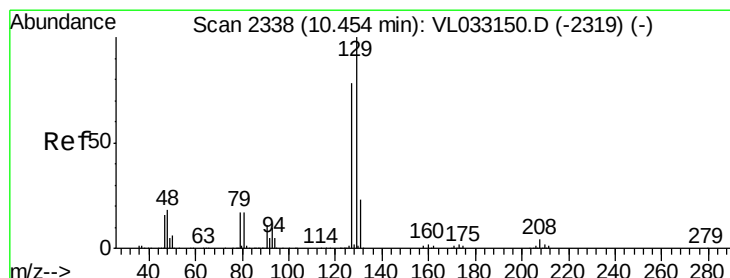
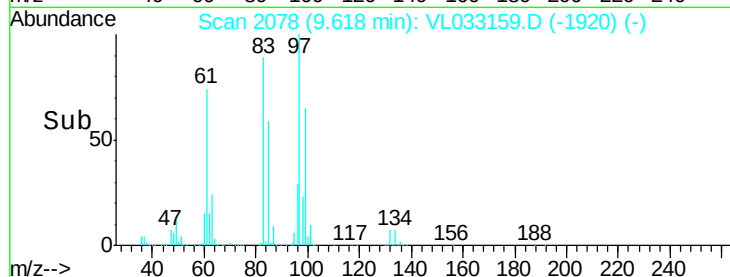
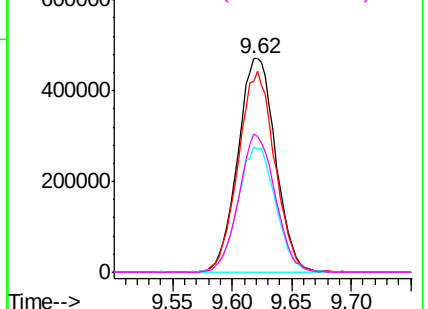


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.356 ppbv

RT: 10.46 min Scan# 2339

Delta R.T. 0.01 min

Lab File: VL033159.D

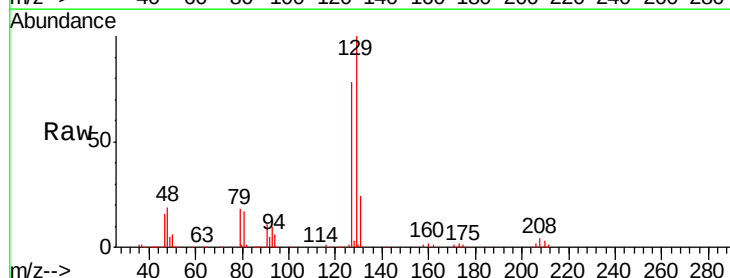
Acq: 4 Feb 2019 17:17

Tgt Ion: 129 Resp: 1656951

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9

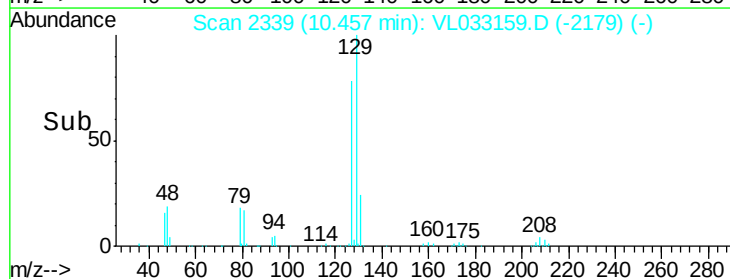
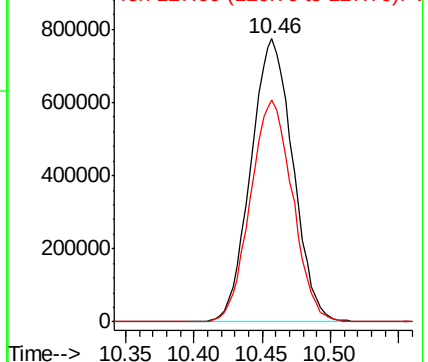
129 100

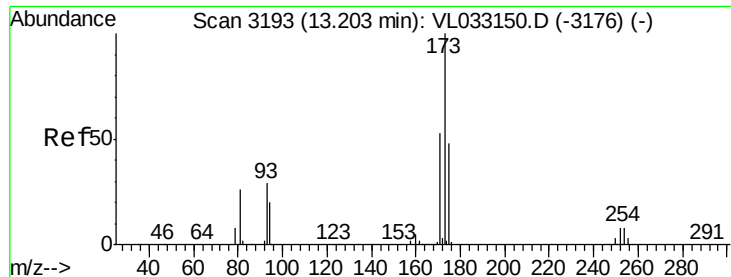
127 78.6 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.577 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

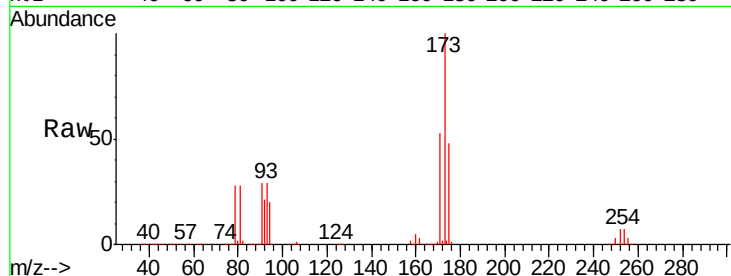
Tgt Ion:173 Resp: 1399848

Ion Ratio Lower Upper

173 100

175 48.2 39.3 58.9

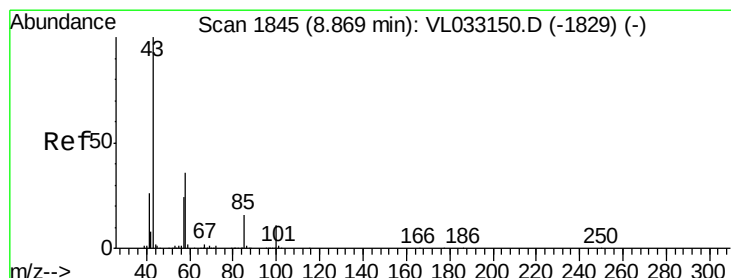
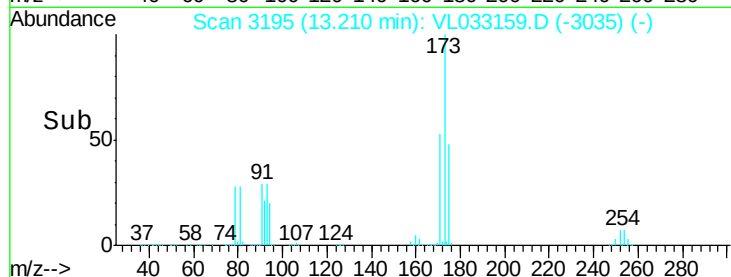
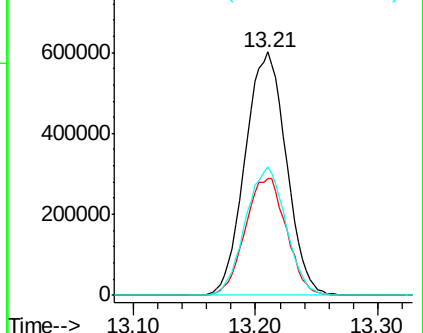
171 51.8 41.8 62.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.023 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033159.D

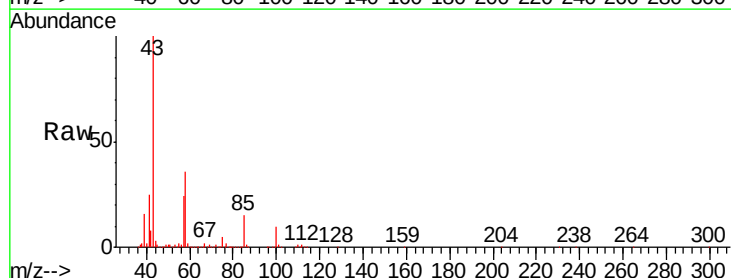
Acq: 4 Feb 2019 17:17

Tgt Ion: 43 Resp: 2610916

Ion Ratio Lower Upper

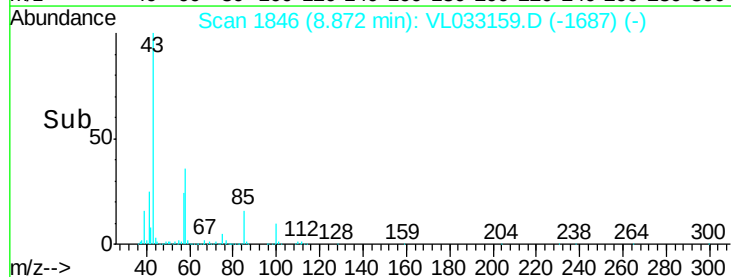
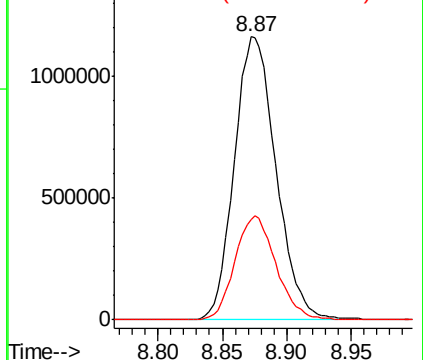
43 100

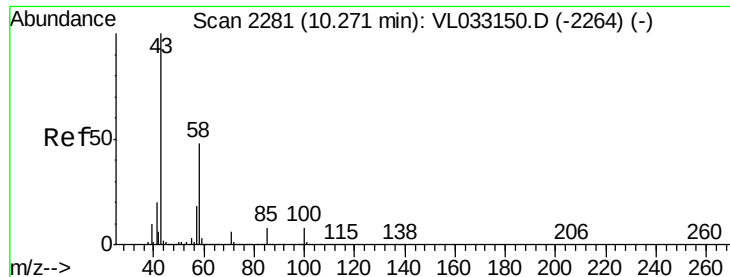
58 36.3 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 7.796 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

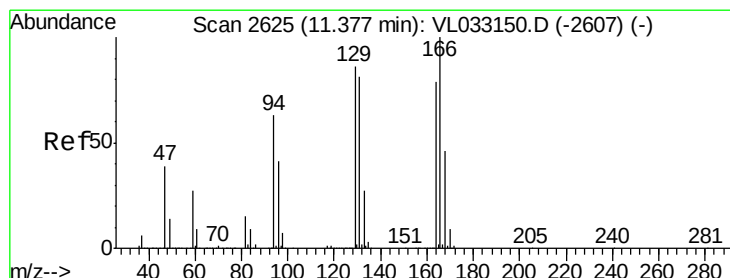
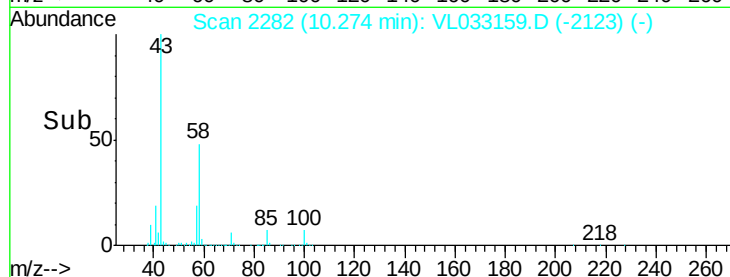
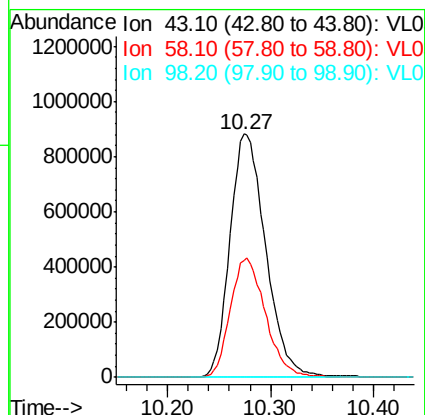
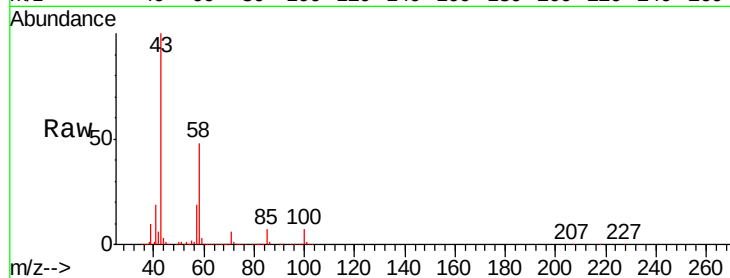
MSVOA_L

ClientSampleId :

VL0204ABS01

Tgt Ion: 43 Resp: 2127834

Ion	Ratio	Lower	Upper
43	100		
58	48.6	39.4	59.2
98	0.1	0.1	0.1#



#52

Tetrachloroethene

Concen: 8.358 ppbv

RT: 11.38 min Scan# 2625

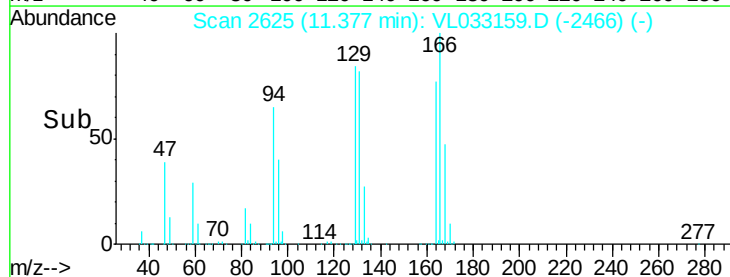
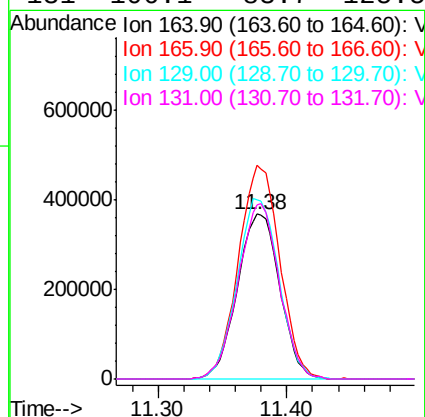
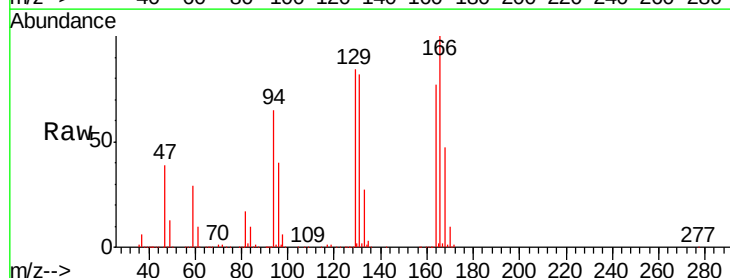
Delta R.T. 0.01 min

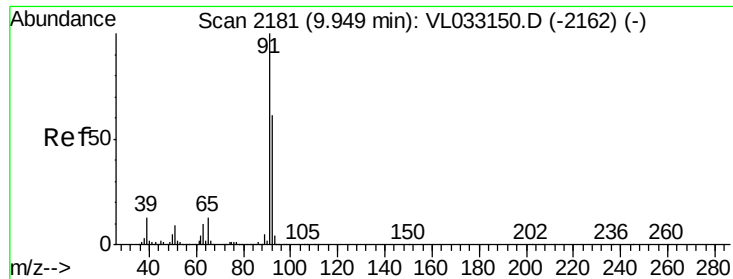
Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Tgt Ion: 164 Resp: 839442

Ion	Ratio	Lower	Upper
164	100		
166	129.8	98.6	148.0
129	109.0	86.3	129.5
131	106.1	83.7	125.5





#53

Toluene

Concen: 8.673 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

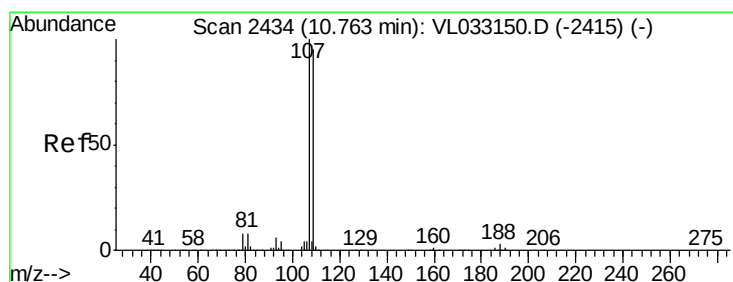
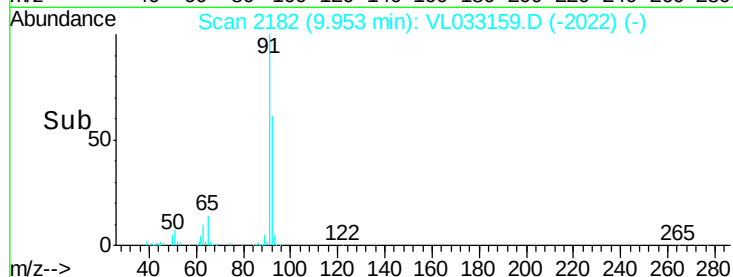
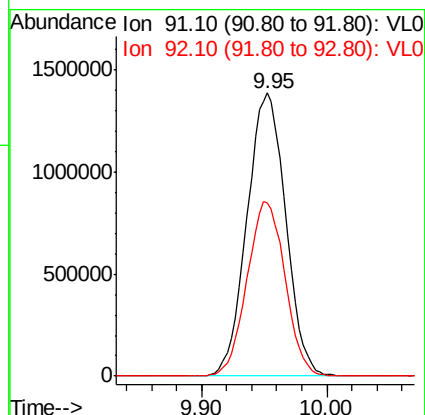
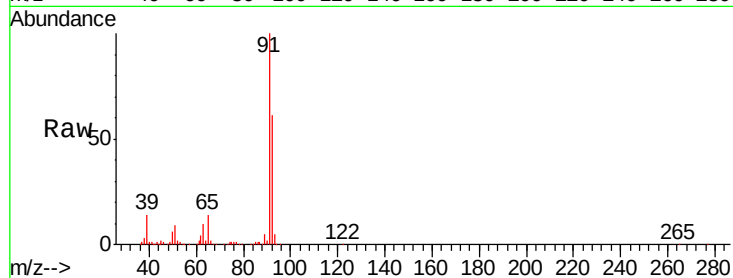
VL0204ABS01

Tgt Ion: 91 Resp: 2976712

Ion Ratio Lower Upper

91 100

92 60.8 48.9 73.3



#54

1,2-Dibromoethane

Concen: 8.932 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.01 min

Lab File: VL033159.D

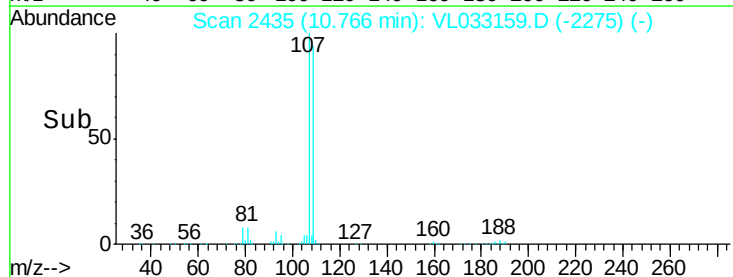
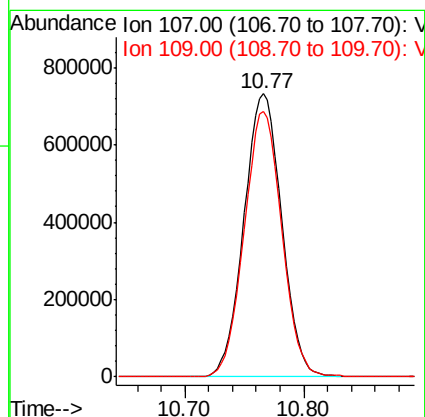
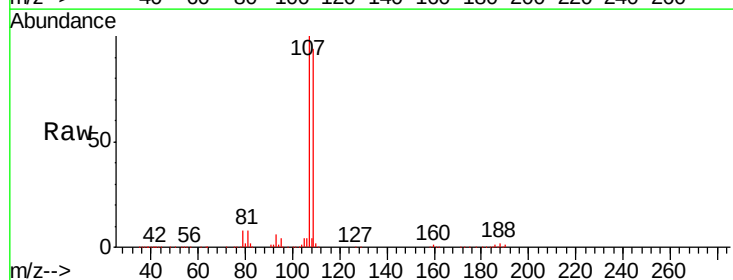
Acq: 4 Feb 2019 17:17

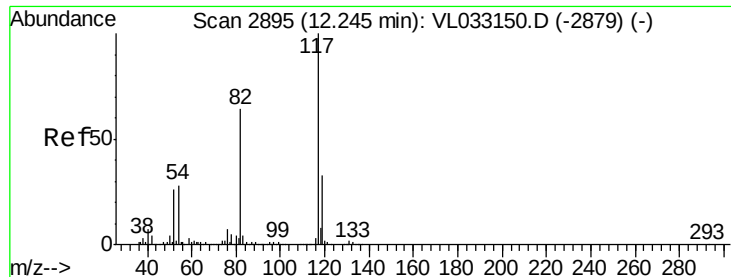
Tgt Ion: 107 Resp: 1609248

Ion Ratio Lower Upper

107 100

109 93.8 74.7 112.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

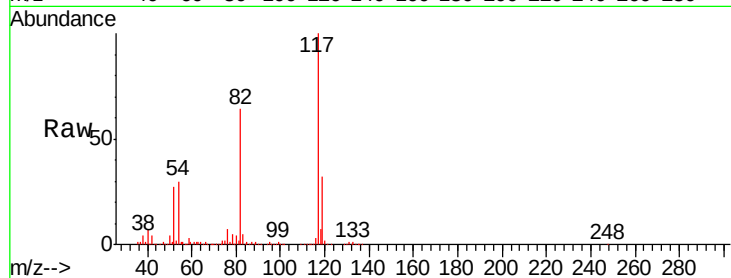
Tgt Ion:117 Resp: 3584209

Ion Ratio Lower Upper

117 100

82 53.9 49.3 73.9

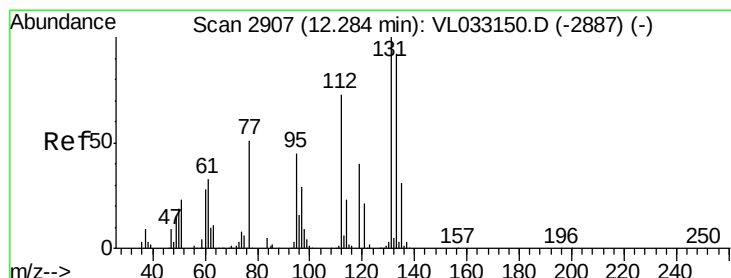
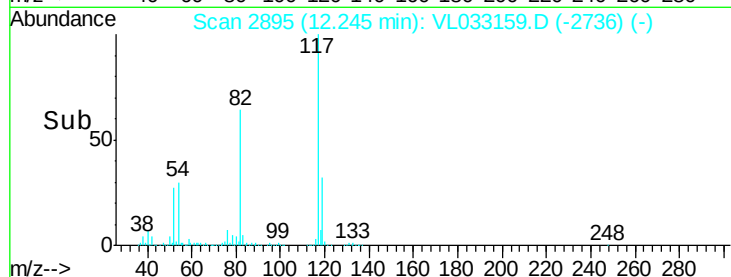
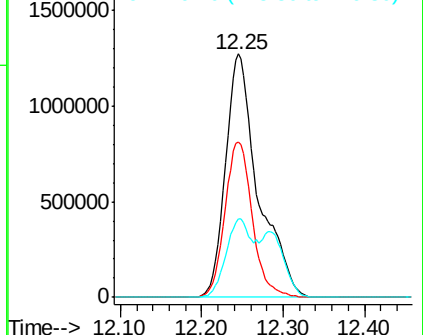
119 27.7 27.1 40.7



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 7.505 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

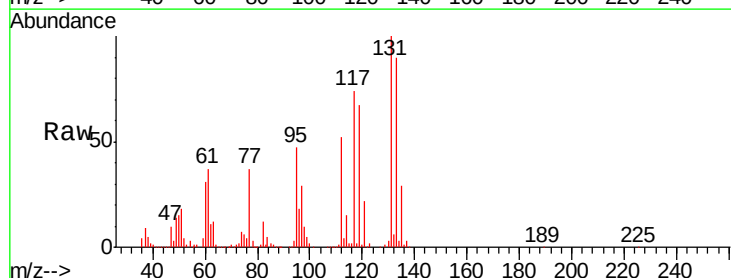
Tgt Ion:131 Resp: 1162917

Ion Ratio Lower Upper

131 100

133 94.9 76.2 114.4

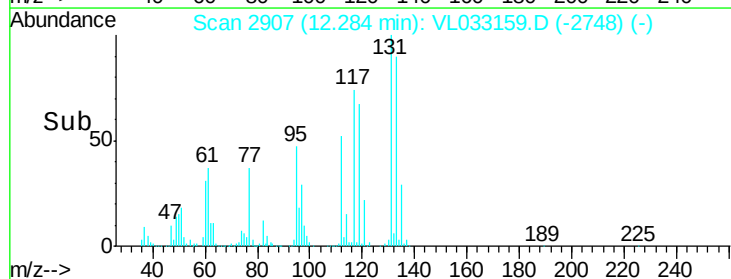
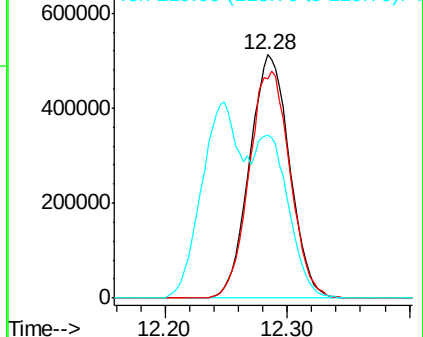
119 140.7 46.9 70.3#

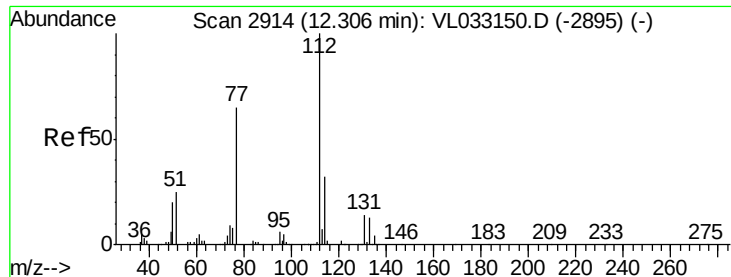


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.141 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

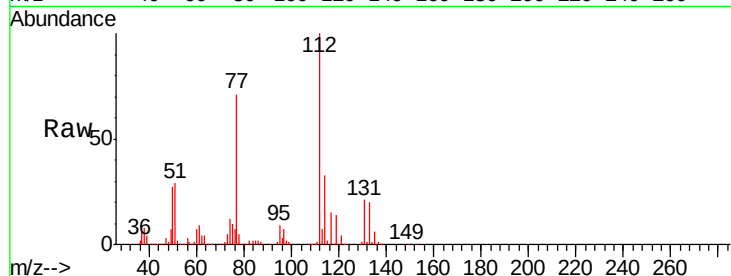
Tgt Ion: 112 Resp: 2133851

Ion Ratio Lower Upper

112 100

77 70.8 52.8 79.2

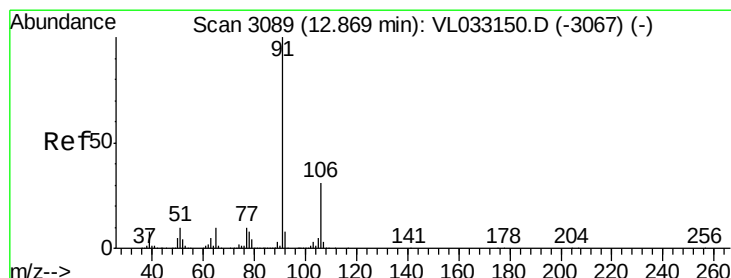
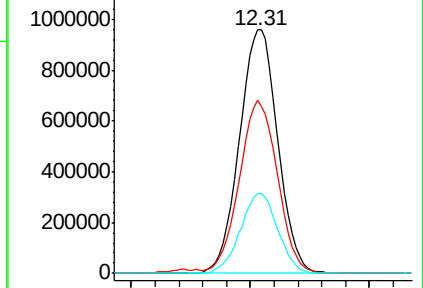
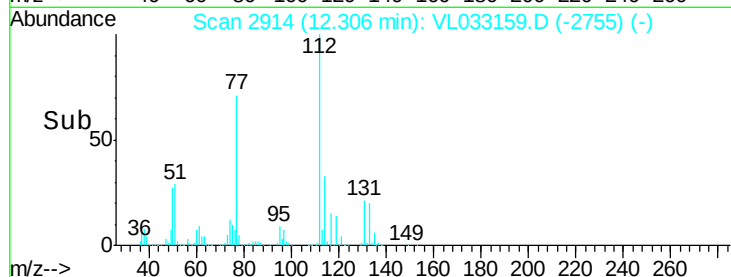
114 32.5 29.7 36.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.225 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. 0.01 min

Lab File: VL033159.D

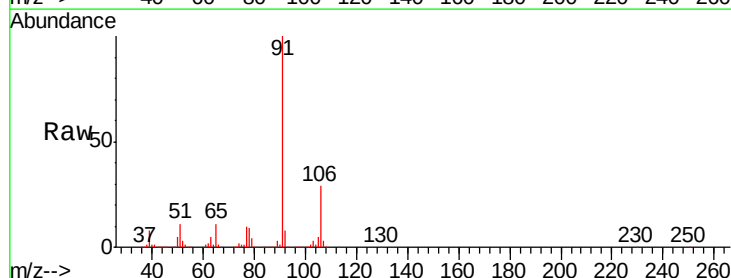
Acq: 4 Feb 2019 17:17

Tgt Ion: 91 Resp: 4074167

Ion Ratio Lower Upper

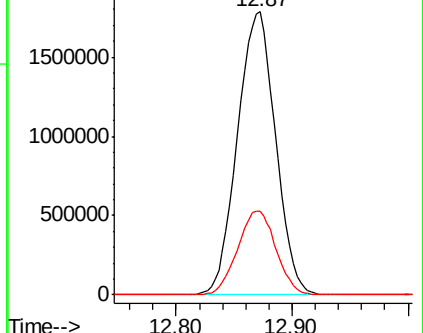
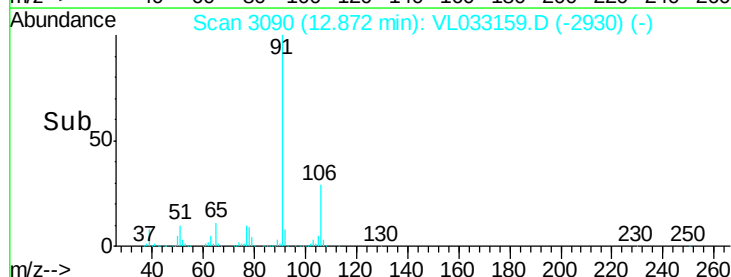
91 100

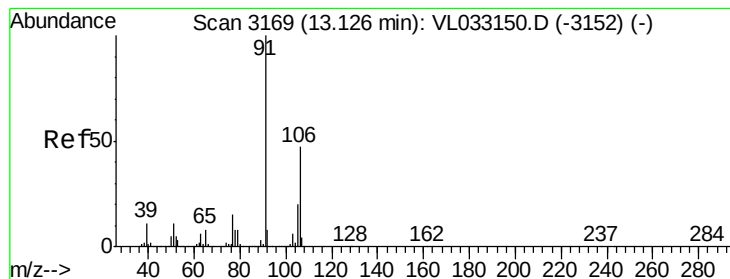
106 29.4 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 7.323 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

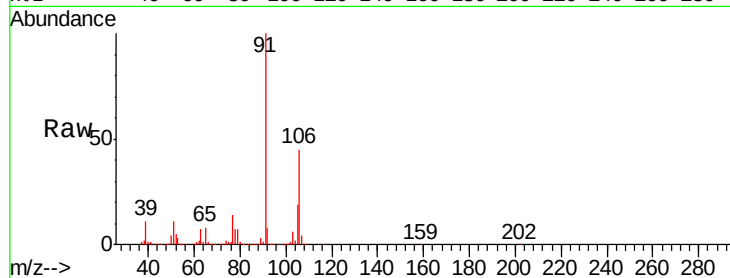
VL0204ABS01

Tgt Ion: 91 Resp: 3381680

Ion Ratio Lower Upper

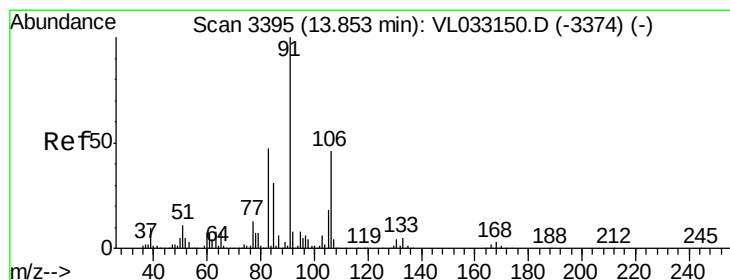
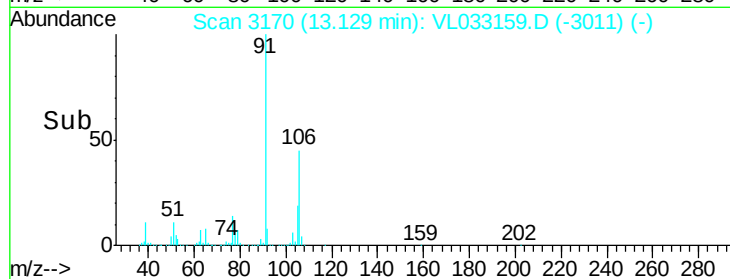
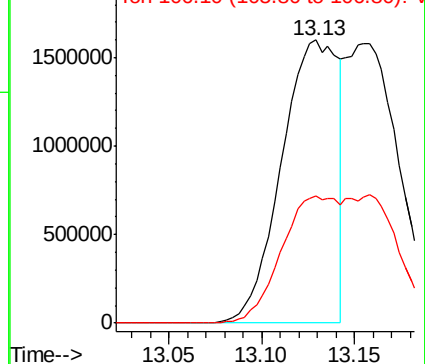
91 100

106 0.0 37.6 56.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 7.461 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. 0.01 min

Lab File: VL033159.D

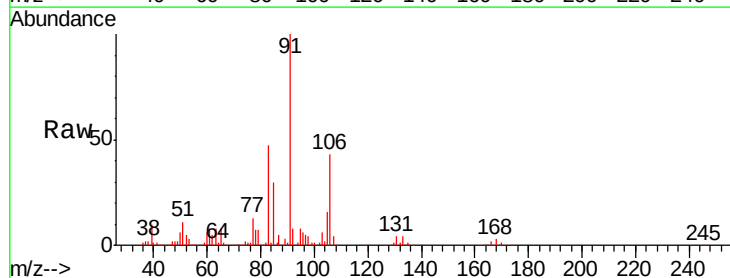
Acq: 4 Feb 2019 17:17

Tgt Ion: 91 Resp: 3179632

Ion Ratio Lower Upper

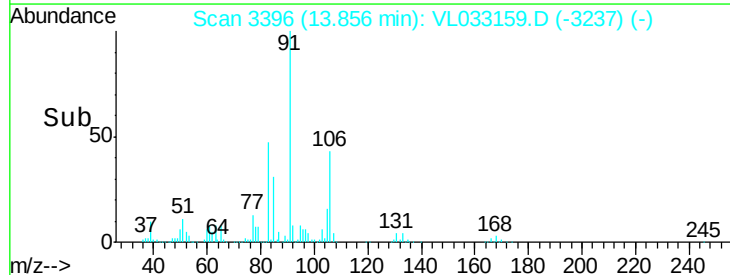
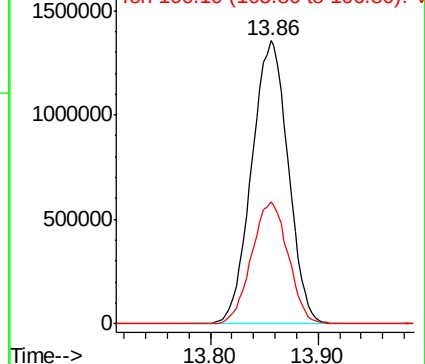
91 100

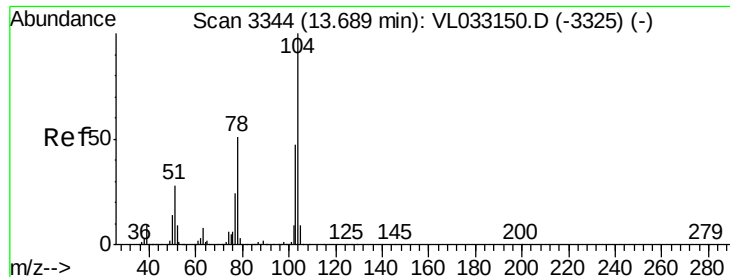
106 43.3 23.2 69.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 7.440 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

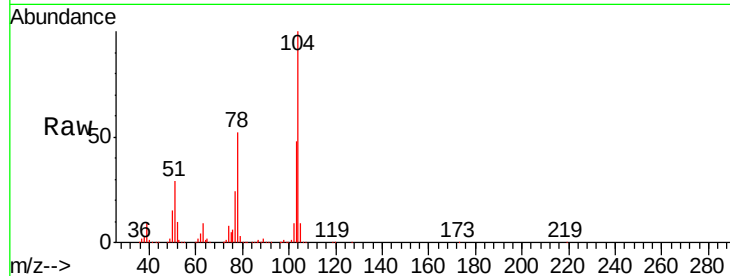
Tgt Ion:104 Resp: 2536907

Ion Ratio Lower Upper

104 100

78 53.1 39.7 59.5

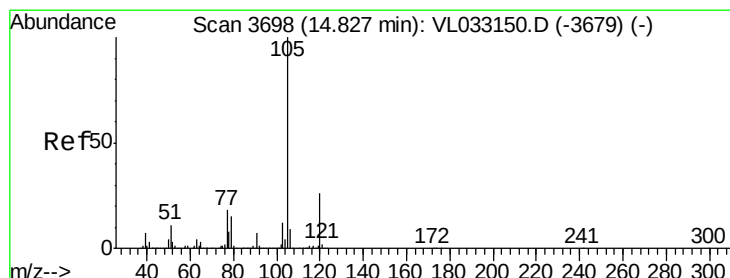
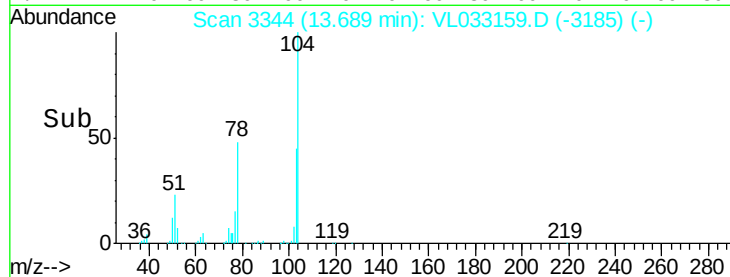
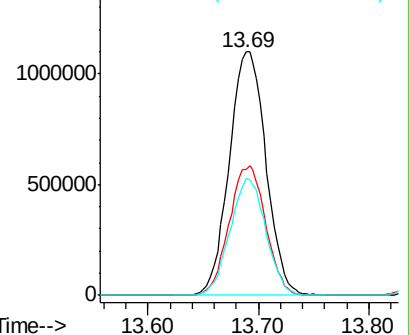
103 46.9 37.7 56.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.379 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. 0.01 min

Lab File: VL033159.D

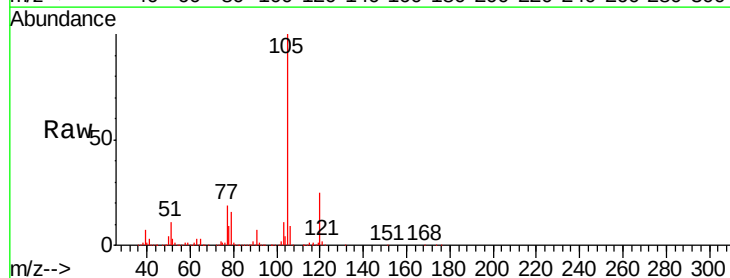
Acq: 4 Feb 2019 17:17

Tgt Ion:105 Resp: 4488239

Ion Ratio Lower Upper

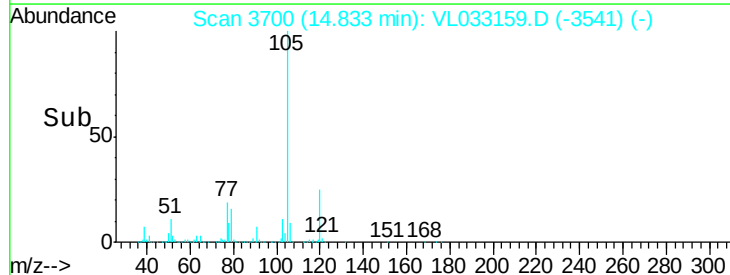
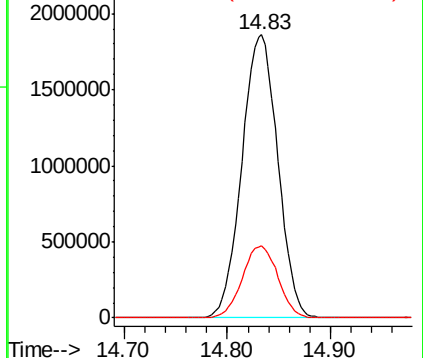
105 100

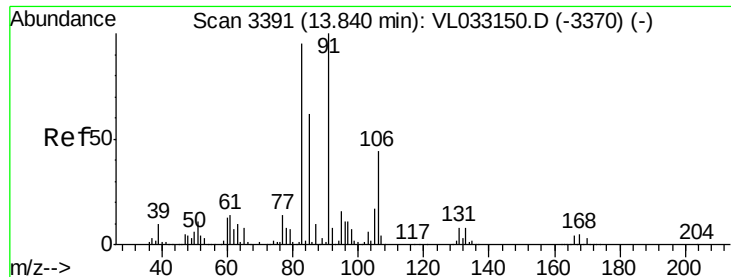
120 25.4 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

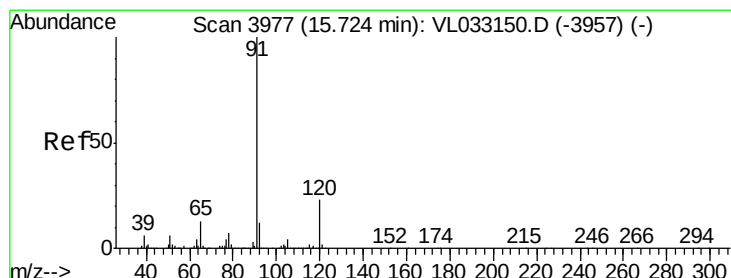
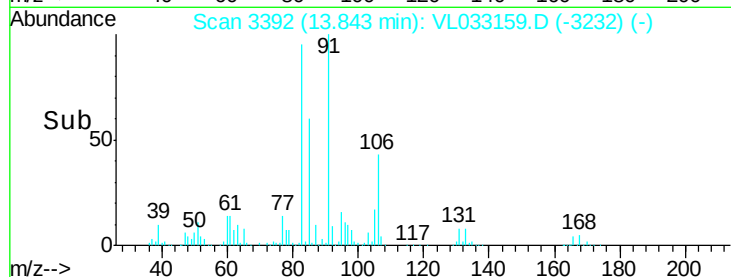
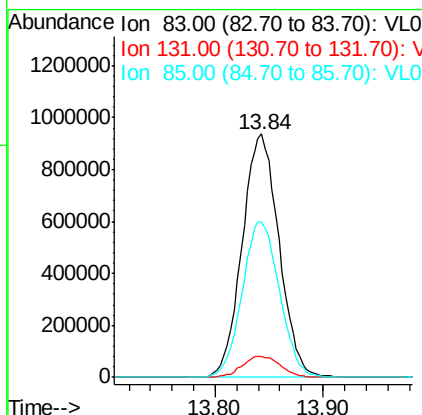
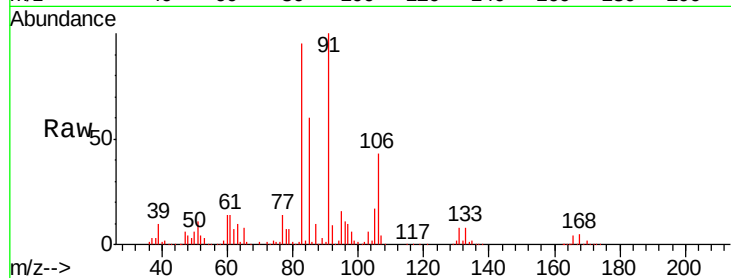




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.258 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

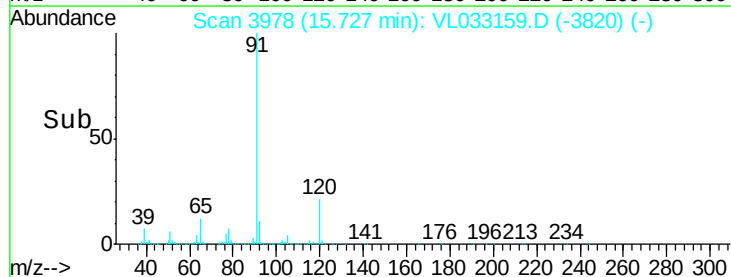
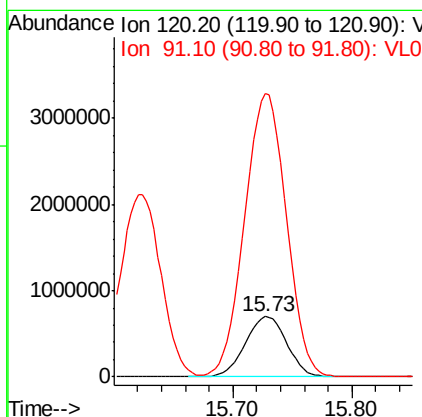
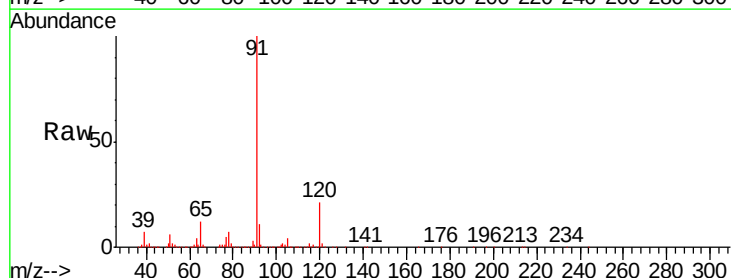
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

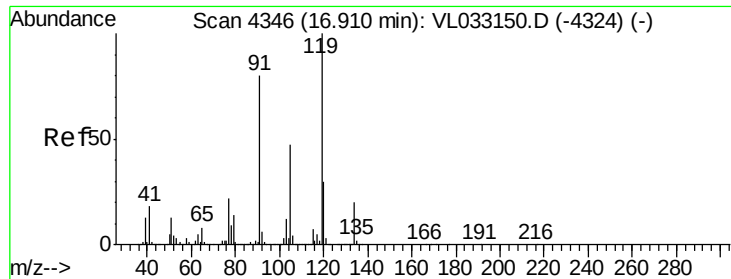
Tgt Ion: 83 Resp: 2218927
 Ion Ratio Lower Upper
 83 100
 131 9.0 4.5 13.7
 85 65.0 32.5 97.4



#64
 n-propylbenzene
 Concen: 10.593 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion: 120 Resp: 1681417
 Ion Ratio Lower Upper
 120 100
 91 475.6 370.2 555.2

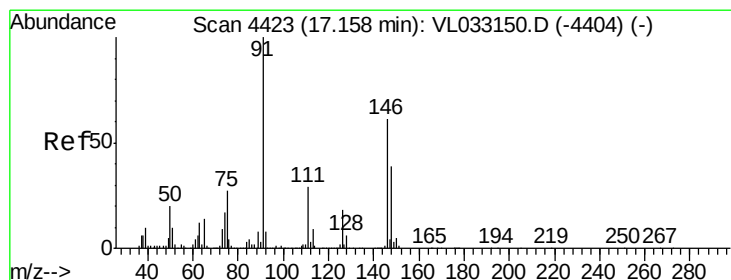
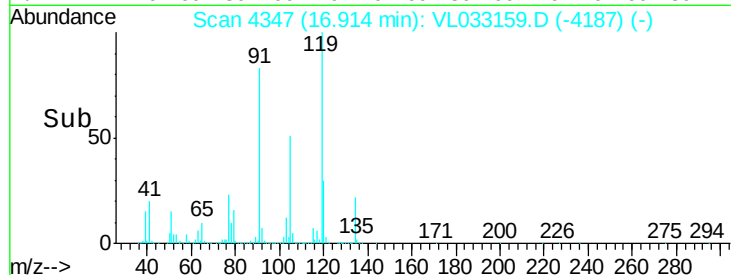
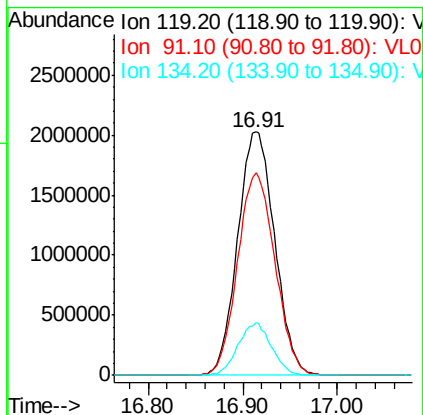
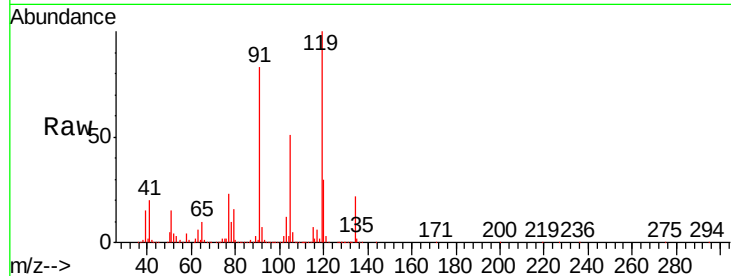




#65
 tert-Butylbenzene
 Concen: 10.091 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

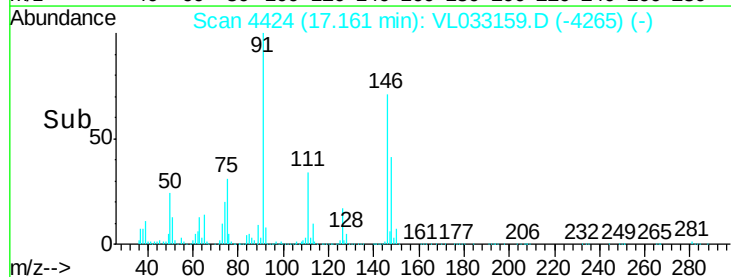
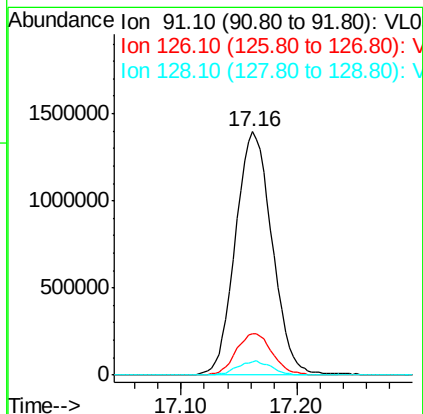
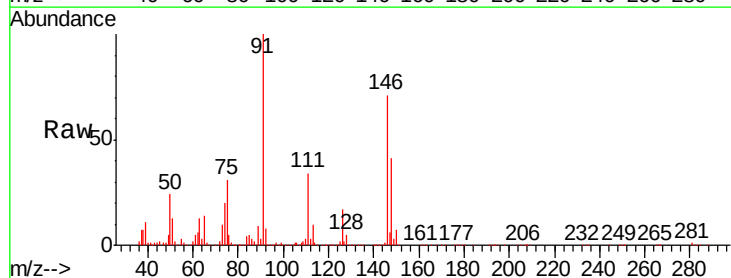
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

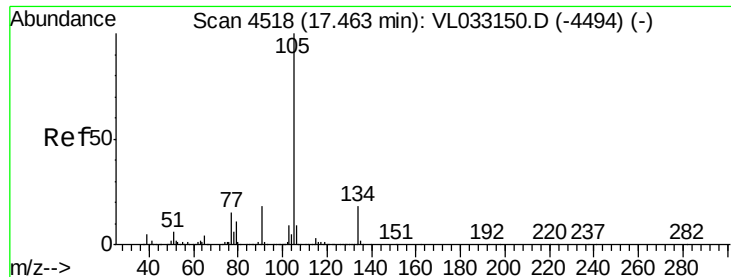
Tgt Ion: 119 Resp: 5505500
 Ion Ratio Lower Upper
 119 100
 91 84.0 63.0 94.6
 134 19.5 15.5 23.3



#66
 Benzyl Chloride
 Concen: 12.336 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion: 91 Resp: 3056818
 Ion Ratio Lower Upper
 91 100
 126 17.0 14.9 22.3
 128 5.5 4.7 7.1





#67

sec-Butylbenzene

Concen: 10.299 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

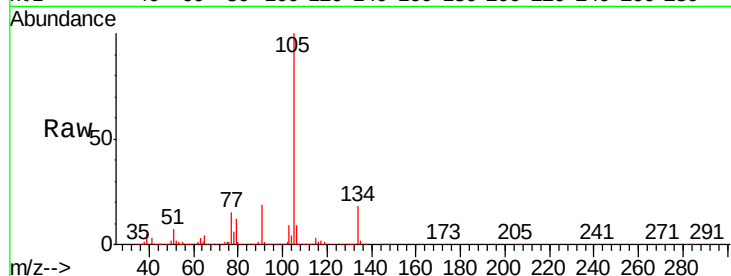
VL0204ABS01

Tgt Ion:105 Resp: 8032602

Ion Ratio Lower Upper

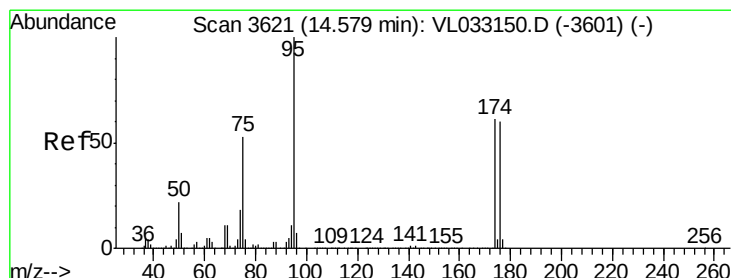
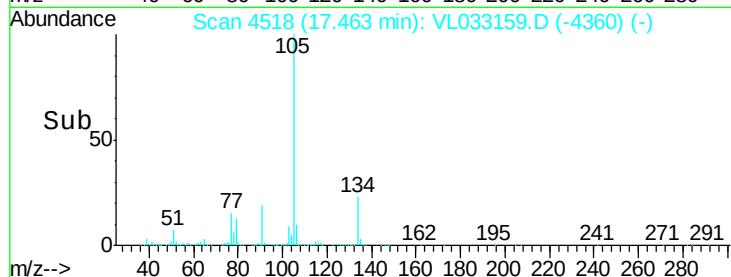
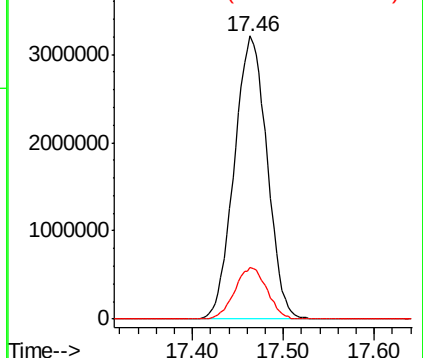
105 100

134 18.0 14.4 21.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.460 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

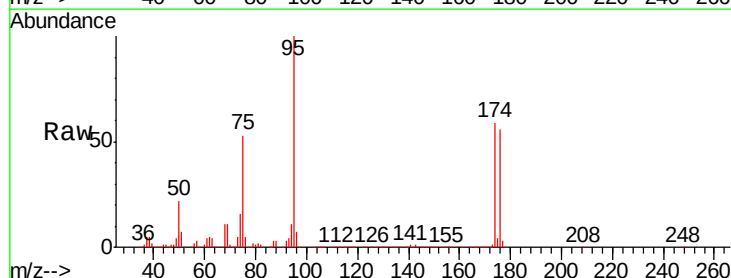
Tgt Ion: 95 Resp: 2259669

Ion Ratio Lower Upper

95 100

174 59.6 49.2 73.8

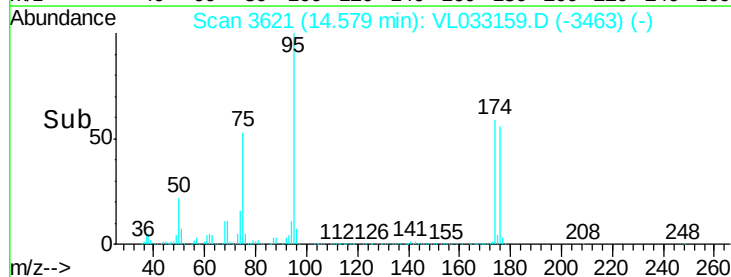
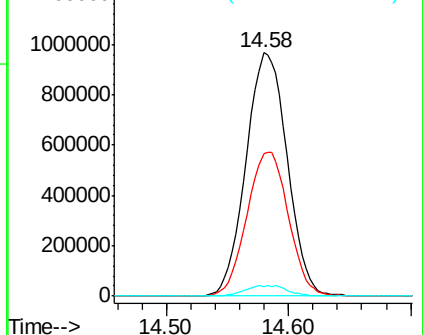
175 4.4 3.7 5.5

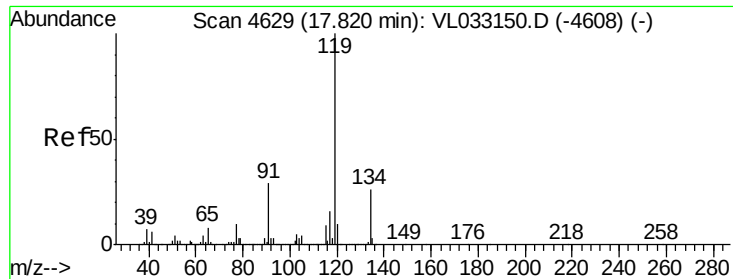


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

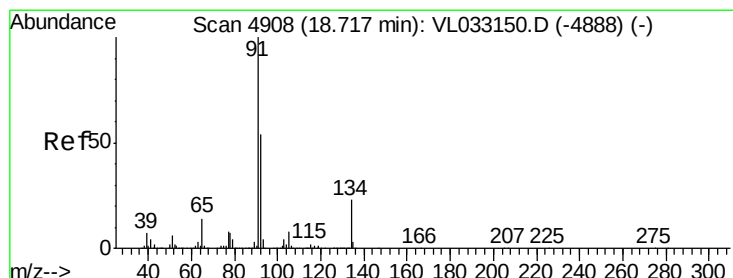
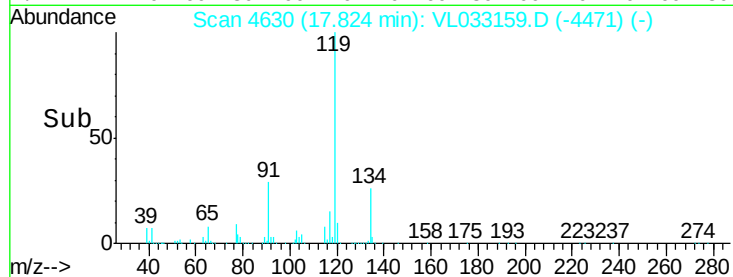
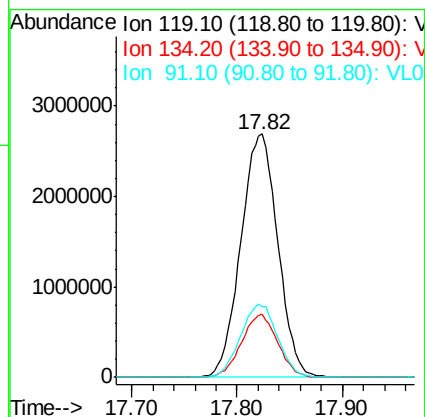
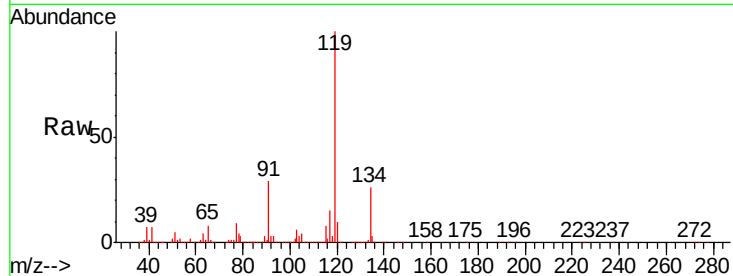




#69
 p-Isopropyltoluene
 Concen: 10.172 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

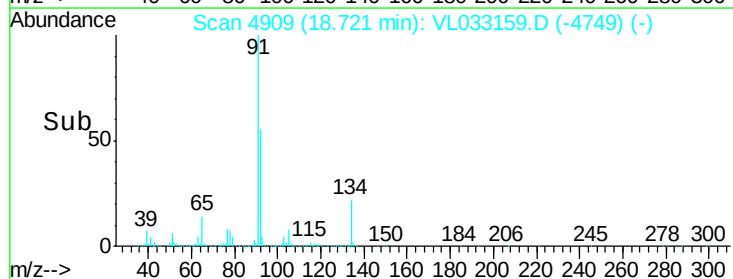
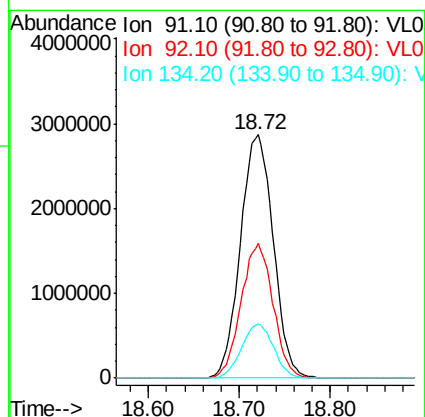
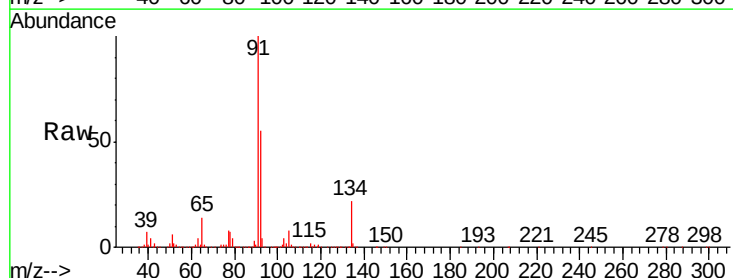
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

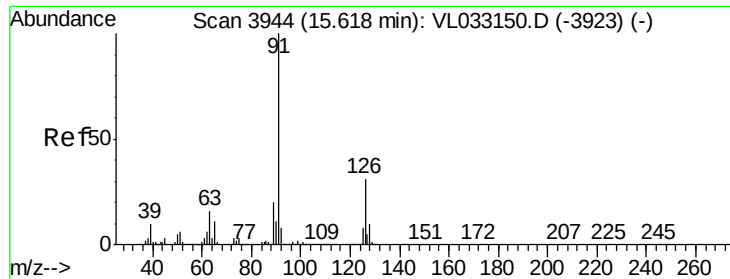
Tgt Ion: 119 Resp: 6556426
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.3 30.5
 91 30.1 22.6 33.8



#70
 n-Butylbenzene
 Concen: 10.243 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion: 91 Resp: 7183362
 Ion Ratio Lower Upper
 91 100
 92 54.0 43.7 65.5
 134 21.7 18.4 27.6





#71

2-Chlorotoluene

Concen: 10.602 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

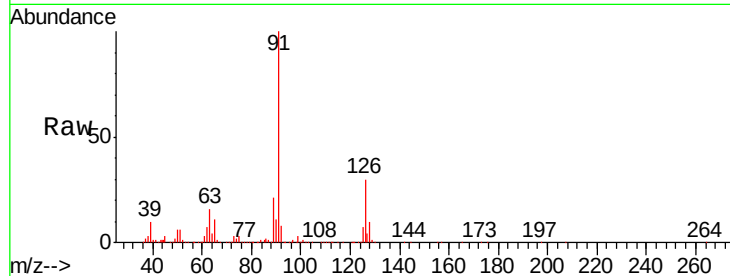
VL0204ABS01

Tgt Ion: 91 Resp: 5112416

Ion Ratio Lower Upper

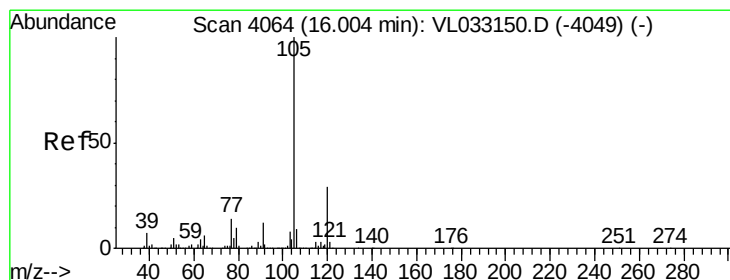
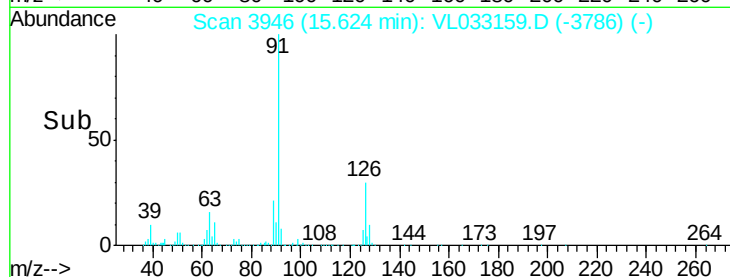
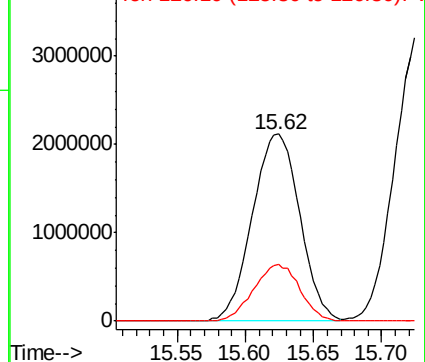
91 100

126 29.7 12.3 49.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.554 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Tgt Ion: 105 Resp: 5375575

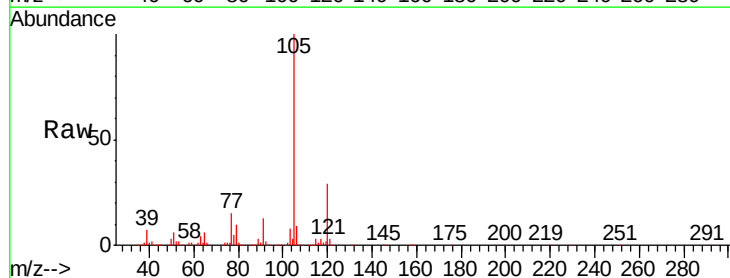
Ion Ratio Lower Upper

105 100

120 29.0 23.2 34.8

91 12.7 9.5 14.3

77 14.0 10.2 15.4

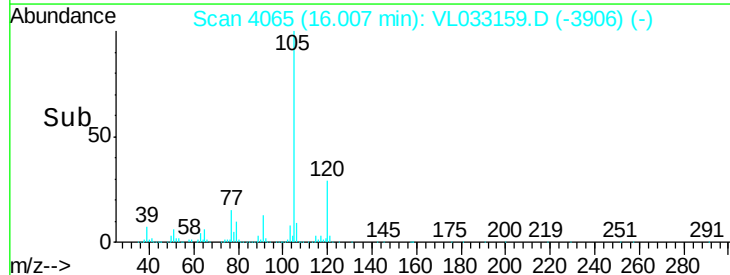
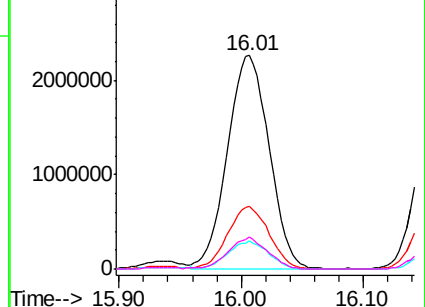


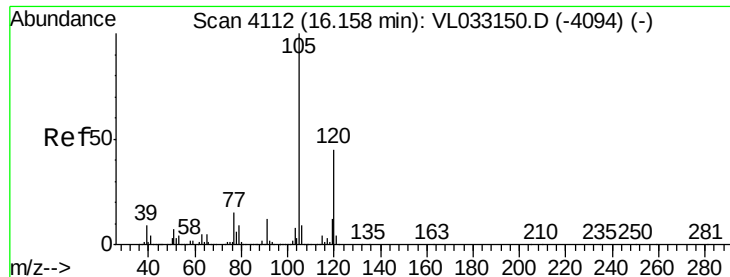
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.482 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

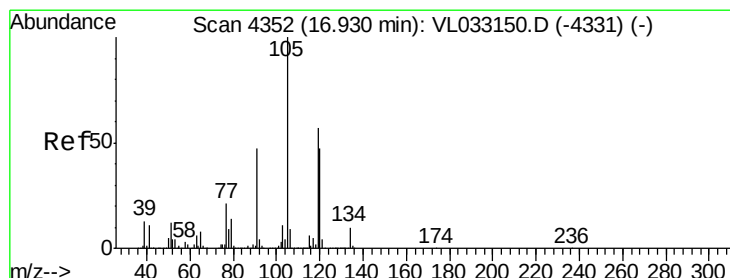
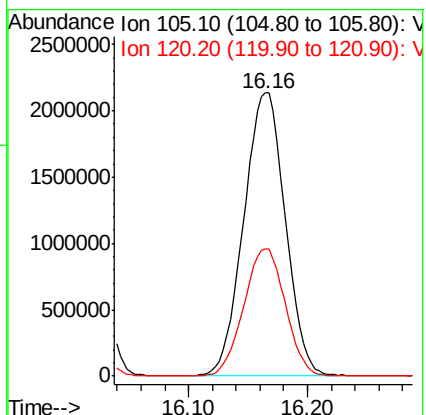
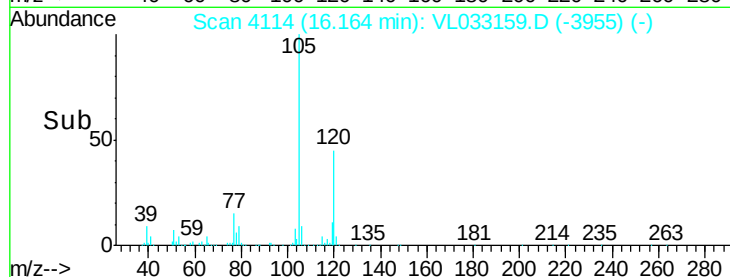
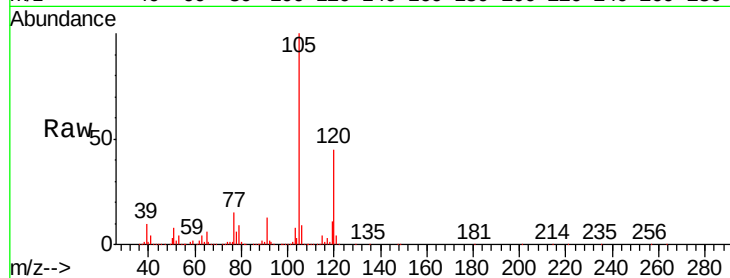
VL0204ABS01

Tgt Ion:105 Resp: 5147298

Ion Ratio Lower Upper

105 100

120 45.0 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 10.127 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Tgt Ion:105 Resp: 5072323

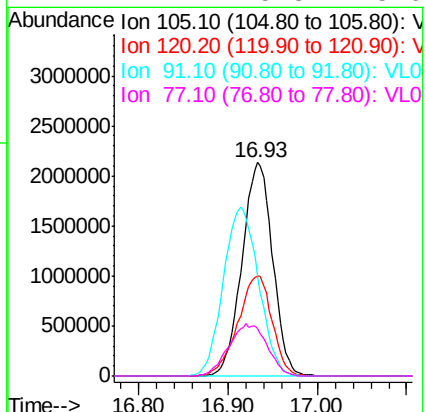
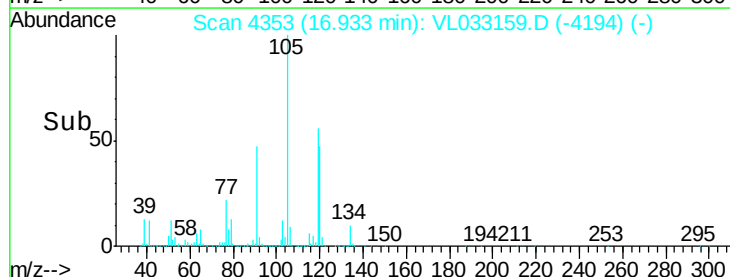
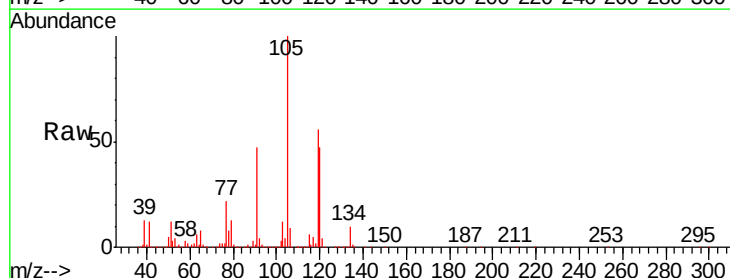
Ion Ratio Lower Upper

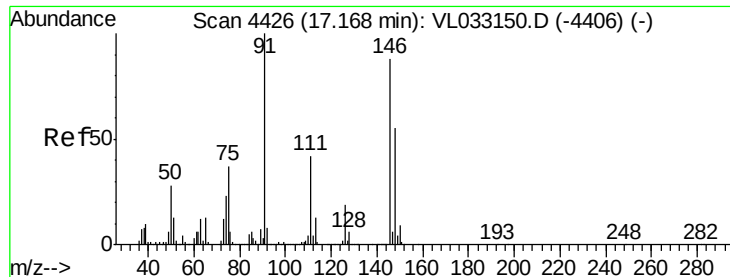
105 100

120 46.6 38.2 57.4

91 46.6 35.0 52.4

77 22.2 15.8 23.6





#75

1,3-Dichlorobenzene

Concen: 10.293 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampled :

VL0204ABS01

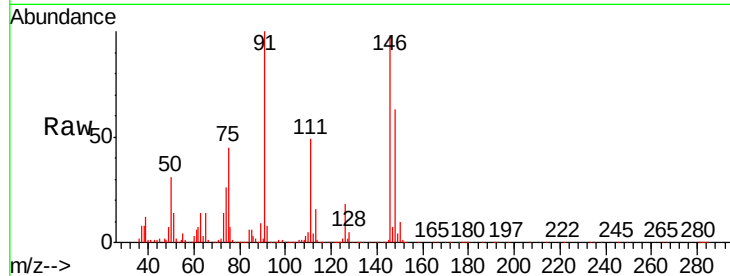
Tgt Ion:146 Resp: 2846015

Ion Ratio Lower Upper

146 100

111 47.6 24.0 72.0

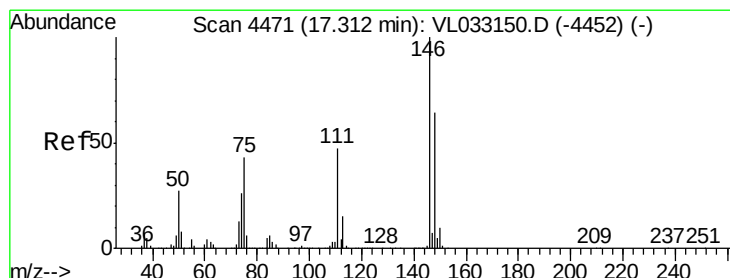
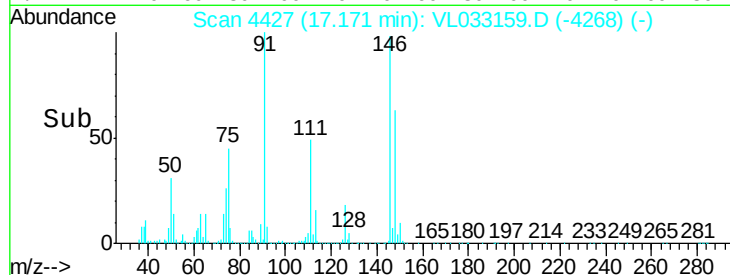
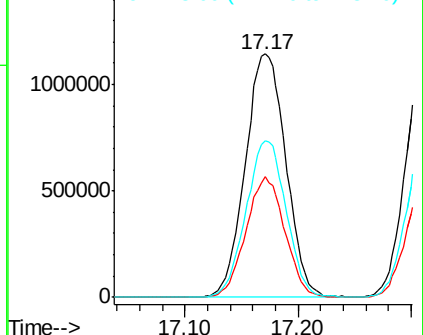
148 63.5 31.9 95.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.422 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

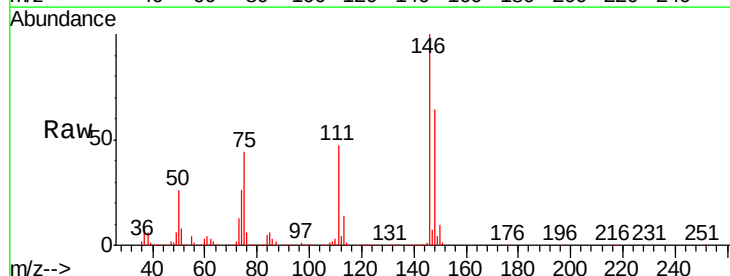
Tgt Ion:146 Resp: 2894539

Ion Ratio Lower Upper

146 100

111 46.4 23.4 70.0

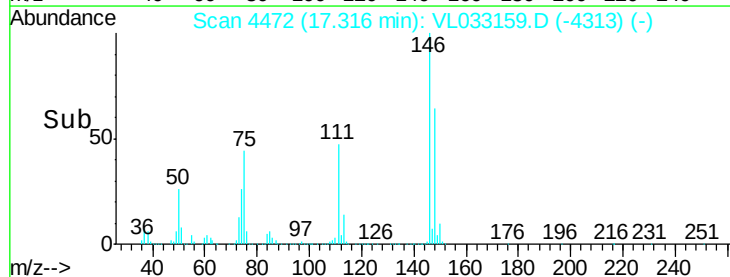
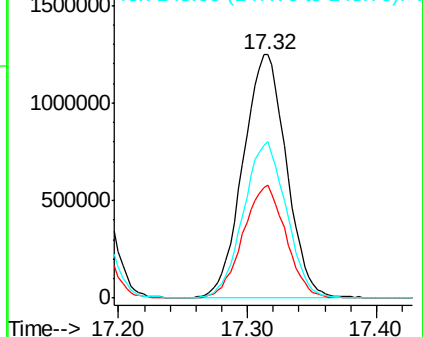
148 64.3 31.9 95.9

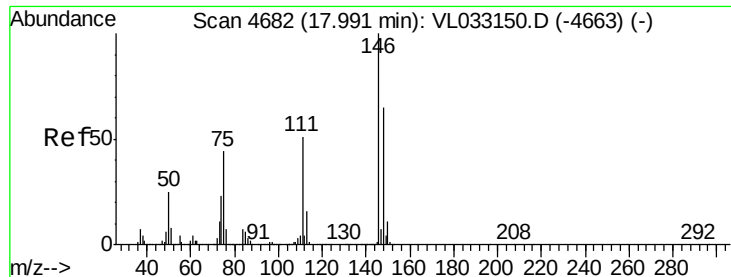


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

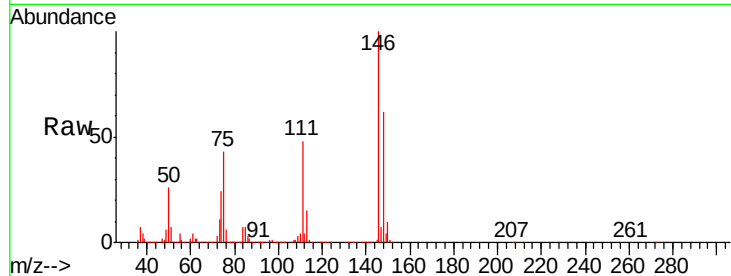




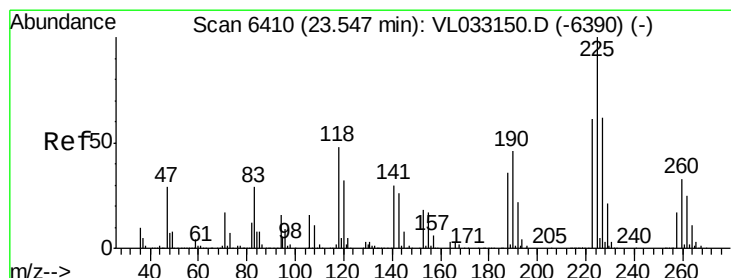
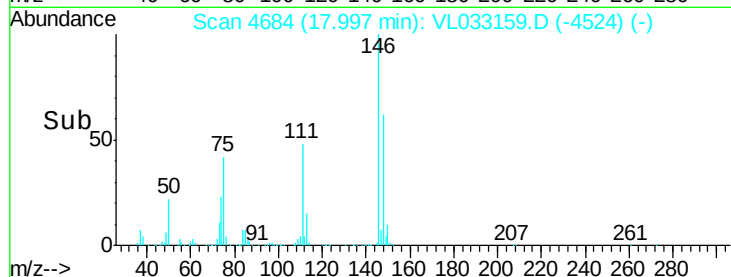
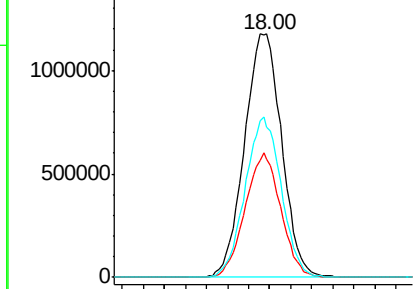
#77
 1,2-Dichlorobenzene
 Concen: 10.510 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tgt Ion:146 Resp: 2890593
 Ion Ratio Lower Upper
 146 100
 111 49.0 25.1 75.3
 148 63.9 32.0 96.2

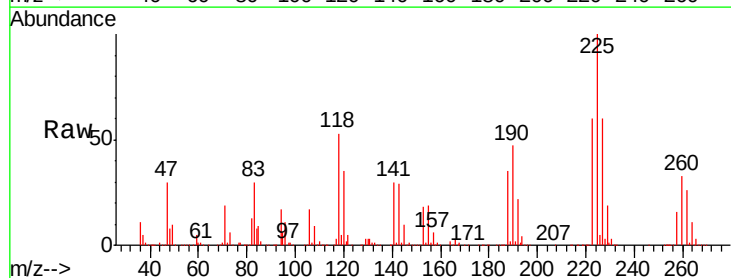


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

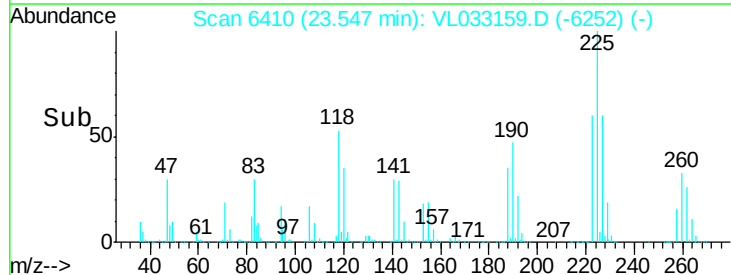
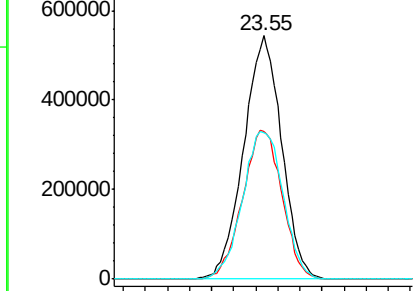


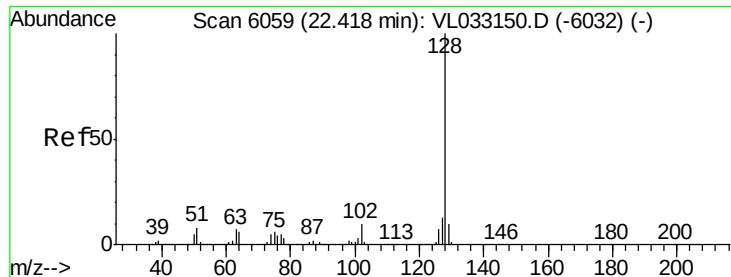
#78
 Hexachloro-1,3-Butadiene
 Concen: 9.516 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. 0.01 min
 Lab File: VL033159.D
 Acq: 4 Feb 2019 17:17

Tgt Ion:225 Resp: 1301917
 Ion Ratio Lower Upper
 225 100
 223 63.4 50.2 75.4
 227 64.7 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V

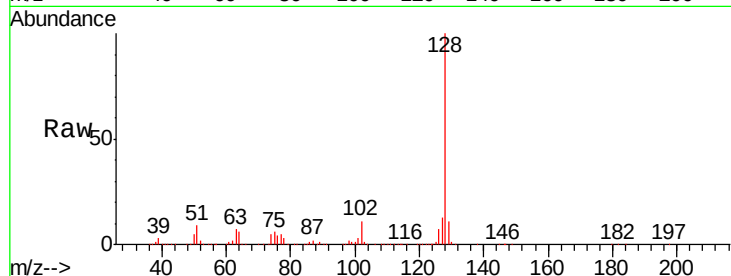




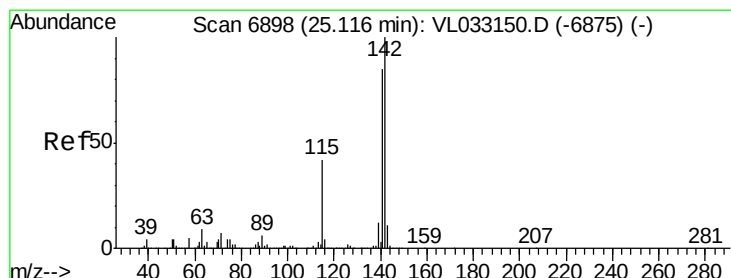
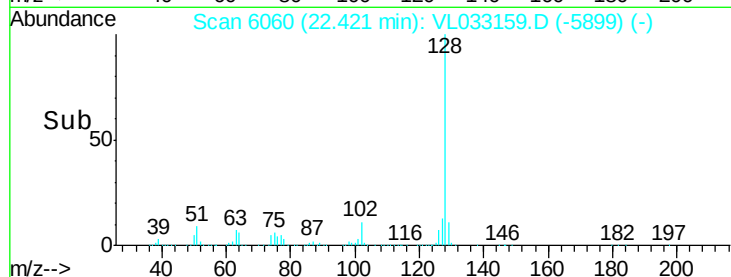
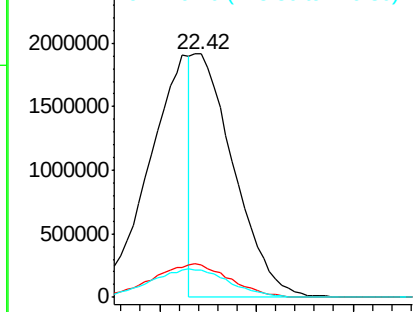
#79
Naphthalene
Concen: 4.779 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.02 min
Lab File: VL033159.D
Acq: 4 Feb 2019 17:17

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tgt Ion:128 Resp: 2802766
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 11.0 9.0 13.4

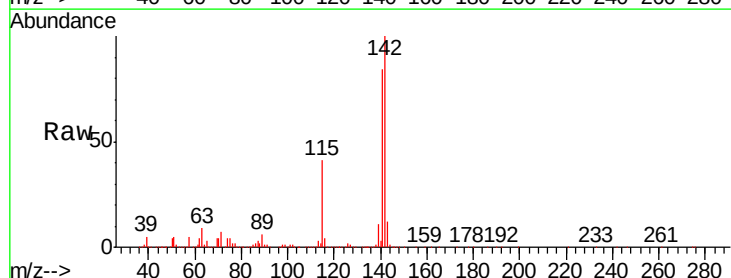


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

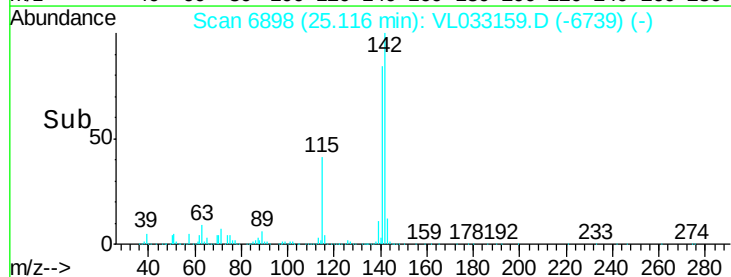
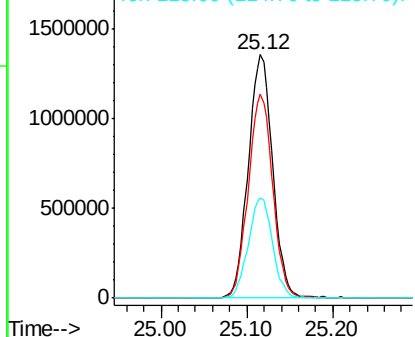


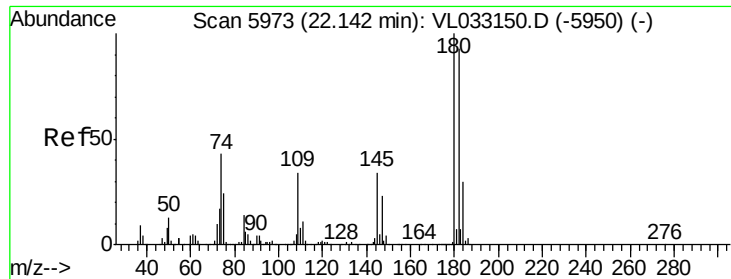
#80
Naphthalene, 2-methyl-
Concen: 8.946 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.01 min
Lab File: VL033159.D
Acq: 4 Feb 2019 17:17

Tgt Ion:142 Resp: 2674903
Ion Ratio Lower Upper
142 100
141 84.6 66.5 99.7
115 41.3 31.3 46.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 9.871 ppbv

RT: 22.14 min Scan# 5972

Delta R.T. 0.01 min

Lab File: VL033159.D

Acq: 4 Feb 2019 17:17

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tgt Ion:180 Resp: 2623596

Ion Ratio Lower Upper

180 100

182 95.2 76.2 114.4

184 30.6 24.6 36.8

