

Data File : VL033798.D
Acq On : 28 May 2019 8:53
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: May 29 04:32:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	940532	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2328813	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2963507	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1983300	8.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	1493442	7.535	ppbv	99
3) Chlorodifluoromethane	3.01	51	1003829	9.318	ppbv	100
4) Chloromethane	3.17	50	613087	9.950	ppbv	97
5) Vinyl Chloride	3.29	62	610572	9.727	ppbv	97
6) Bromomethane	3.51	94	381082	9.950	ppbv	97
7) Chloroethane	3.60	64	225346	10.102	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	1537853	9.624	ppbv	99
9) Propene	3.03	41	474719	10.360	ppbv	98
10) Heptane	8.24	43	1391101	10.720	ppbv	100
11) Trichlorofluoromethane	4.00	101	1736879	9.181	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1187926	8.992	ppbv	98
13) Ethanol	3.65	45	86646	5.850	ppbv	99
14) Bromoethene	3.78	108	508474	10.470	ppbv	97
15) Acetone	3.90	43	1107246	8.485	ppbv	100
16) 1,3-Butadiene	3.36	39	530494	10.209	ppbv	99
17) tert-Butyl alcohol	4.35	59	1043654	9.891	ppbv	100
18) 1,1-Dichloroethene	4.35	96	531778	9.537	ppbv	99
19) Isopropyl Alcohol	4.02	45	739996	8.795	ppbv	100
20) Methylene Chloride	4.40	84	450703	8.970	ppbv	95
21) Allyl Chloride	4.47	41	767489	9.429	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	548947	9.605	ppbv	97
23) Vinyl Acetate	5.15	43	1785907	10.380	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1261744	9.647	ppbv	99
25) Ethyl Acetate	5.76	43	2141575	9.342	ppbv	100
26) Hexane	5.78	57	957358	9.715	ppbv	99
27) Carbon Disulfide	4.61	76	1326250	9.809	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1702937	10.600	ppbv	99
29) Chloroform	5.84	83	1606486	8.850	ppbv	100
30) Cyclohexane	7.24	84	834743	10.075	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	973645	9.964	ppbv	93
32) 1,1,1-Trichloroethane	6.61	97	1666243	9.193	ppbv	99
34) 2-Butanone	5.32	43	1423353	9.860	ppbv	99
35) Carbon Tetrachloride	7.13	117	1733596	9.293	ppbv	99
36) Benzene	7.00	78	2039197	9.626	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1213418	8.880	ppbv	99
38) Trichloroethene	7.96	130	813718	10.352	ppbv	98
39) 1,2-Dichloropropane	7.73	63	756599	9.580	ppbv	96
40) 1,4-Dioxane	7.95	88	294475	8.913	ppbv #	96
41) Tetrahydrofuran	6.14	42	795911	9.841	ppbv	98
42) Bromodichloromethane	7.91	83	1759940	9.407	ppbv	96
43) Methyl Methacrylate	8.13	69	906249	11.624	ppbv	98

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3336298	9.319	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1095428	11.083	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1239626	10.711	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	864295	9.633	ppbv	98
48) Dibromochloromethane	10.45	129	1554084	9.996	ppbv	100
49) Bromoform	13.20	173	1527307	11.676	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2154659	9.704	ppbv	100
51) 2-Hexanone	10.26	43	1757695	10.143	ppbv #	99
52) Tetrachloroethene	11.37	164	792894	10.648	ppbv	98
53) Toluene	9.94	91	2444300	10.698	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1341406	9.797	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1044021	7.613	ppbv	97
57) Chlorobenzene	12.29	112	1840602	7.545	ppbv	98
58) Ethyl Benzene	12.86	91	3599787	9.173	ppbv	99
59) m/p-Xylene	13.15	91	2847032	8.299	ppbv #	21
60) o-Xylene	13.84	91	2940687	8.503	ppbv	99
61) Styrene	13.68	104	2273083	9.763	ppbv	99
62) Isopropylbenzene	14.82	105	3895448	8.364	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2051506	8.157	ppbv	100
64) n-propylbenzene	15.72	120	1034154	8.585	ppbv	98
65) tert-Butylbenzene	16.90	119	3591409	8.446	ppbv	99
66) Benzyl Chloride	17.15	91	1801530	8.895	ppbv	99
67) sec-Butylbenzene	17.45	105	4973911	8.357	ppbv	100
69) p-Isopropyltoluene	17.81	119	4193135	8.524	ppbv	99
70) n-Butylbenzene	18.71	91	4412031	8.364	ppbv	100
71) 2-Chlorotoluene	15.61	91	3031113	8.772	ppbv	99
72) 4-Ethyltoluene	15.99	105	3553704	8.988	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3314706	8.592	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	3459776	8.240	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	1997051	7.762	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1976625	8.083	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1932340	7.993	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1053752	5.765	ppbv	100
79) Naphthalene	22.41	128	2641436	6.773	ppbv	99
80) Naphthalene,2-methyl-	25.11	142	1016448	6.860	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1521849	6.664	ppbv	100

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

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Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

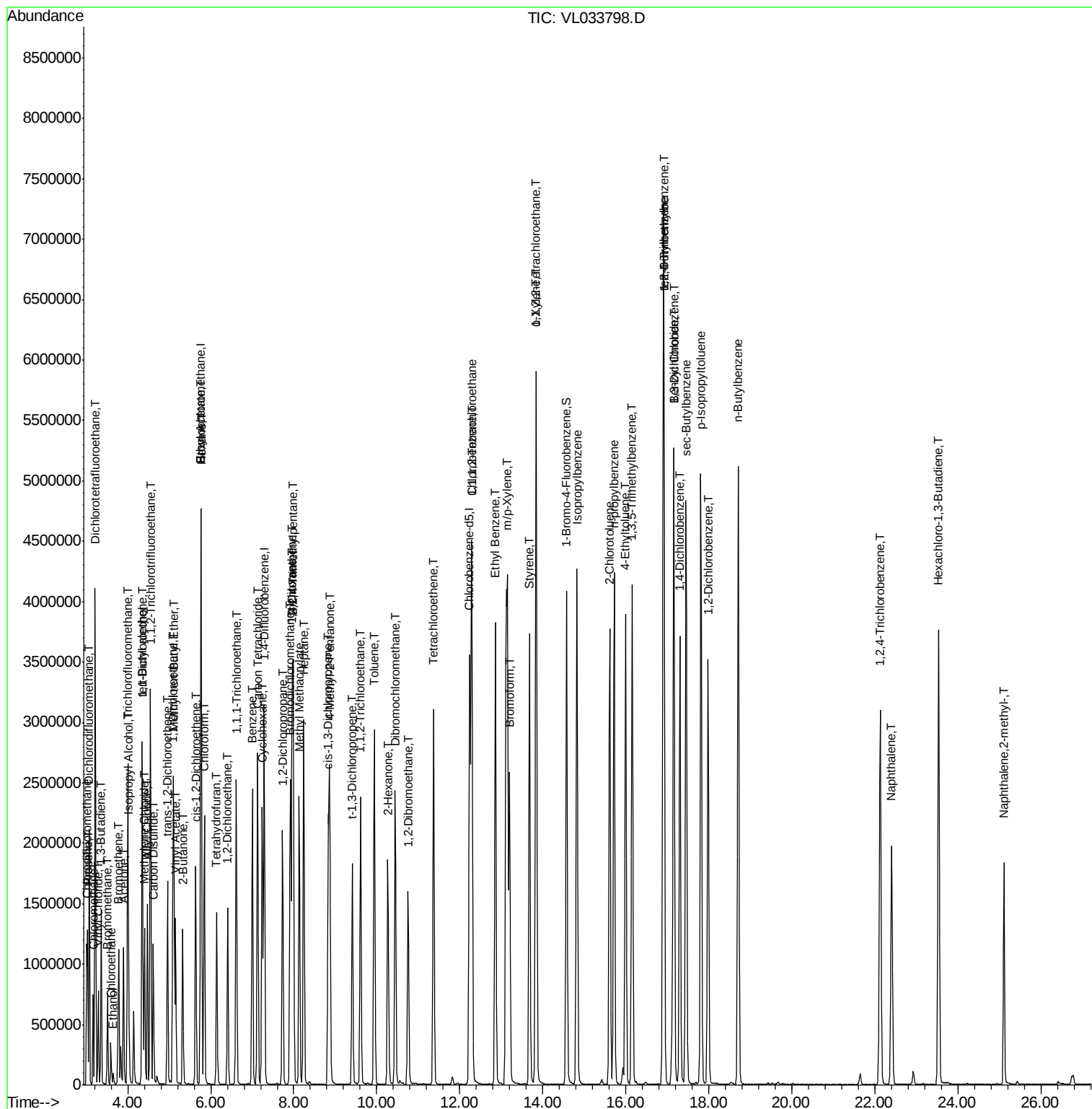
Quant Time: May 29 04:32:52 2019

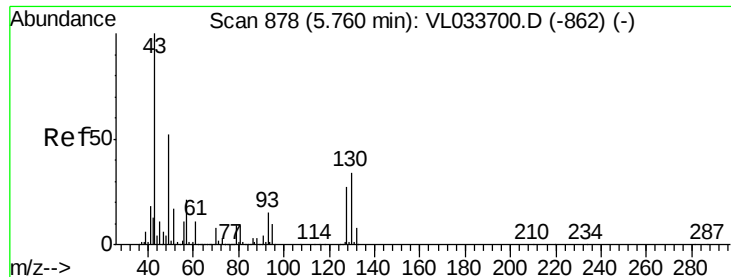
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri May 17 08:15:41 2019

QLast Update : Fri May 17 08:15:41 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033798.D

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Instrument :

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ClientSampleId :

VSTDCCC010

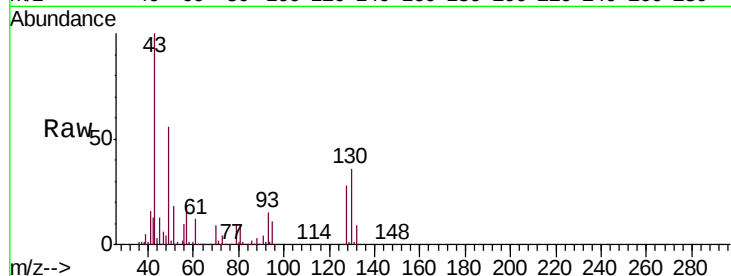
Tgt Ion: 49 Resp: 940532

Ion Ratio Lower Upper

49 100

128 51.5 25.2 75.6

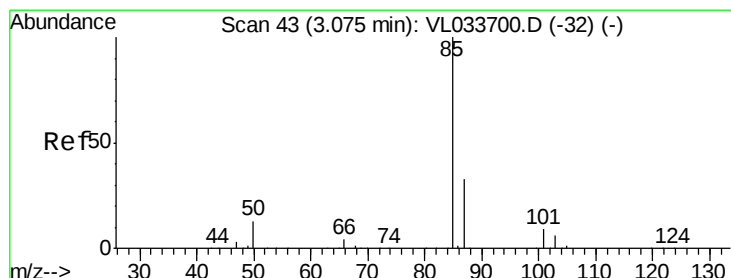
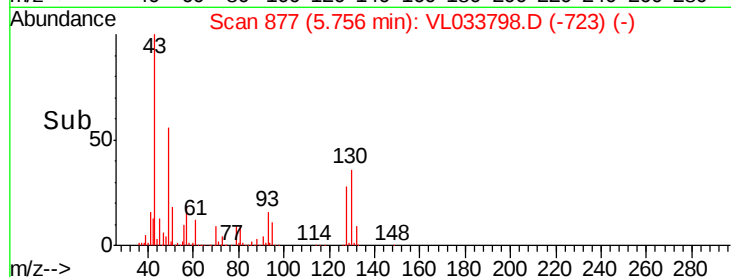
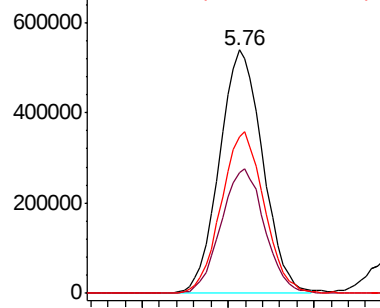
130 66.1 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.535 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033798.D

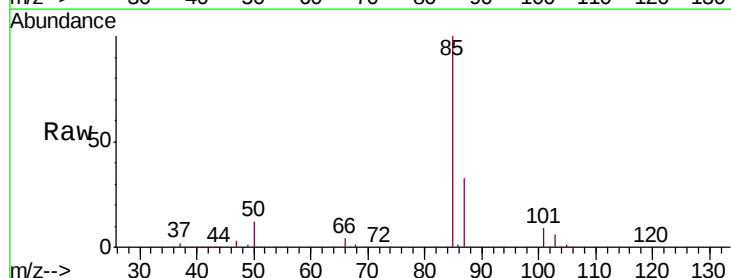
Acq: 28 May 2019 8:53

Tgt Ion: 85 Resp: 1493442

Ion Ratio Lower Upper

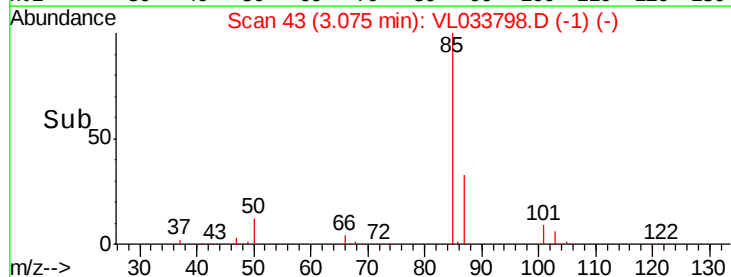
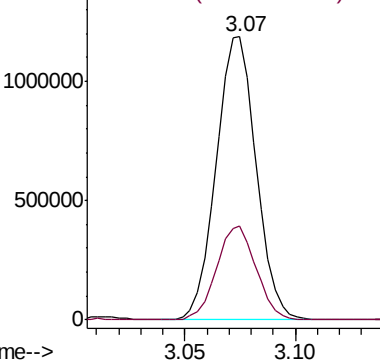
85 100

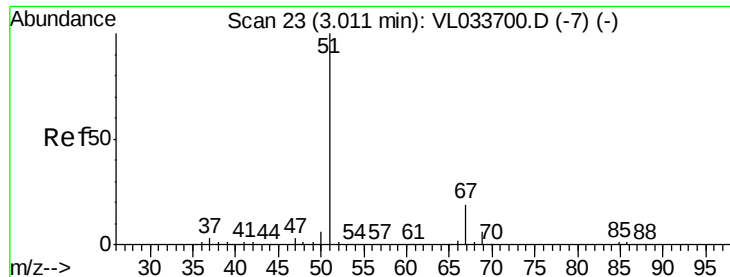
87 33.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

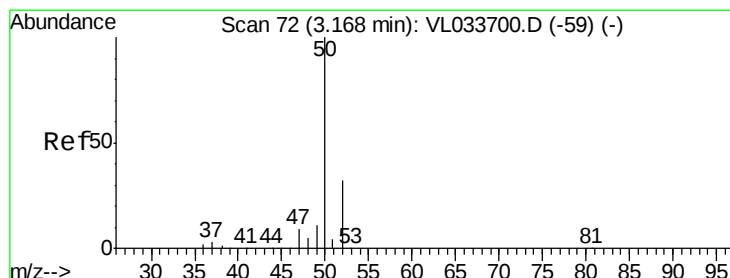
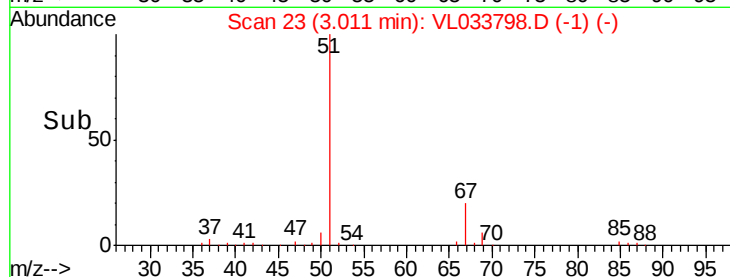
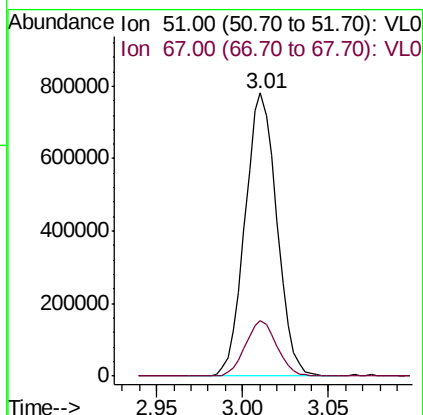
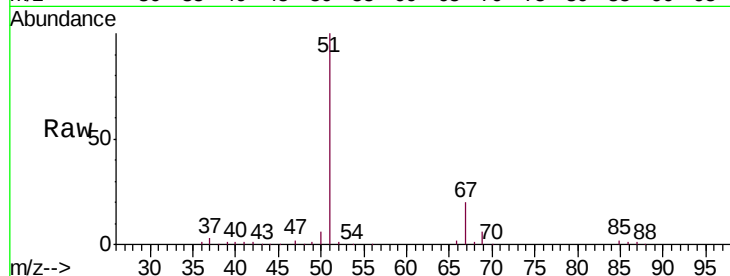




#3
Chlorodifluoromethane
Concen: 9.318 ppbv
RT: 3.01 min Scan# 23
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

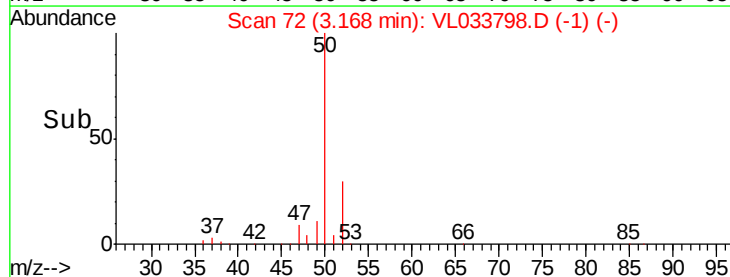
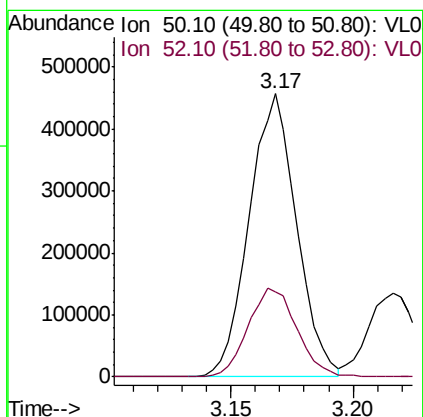
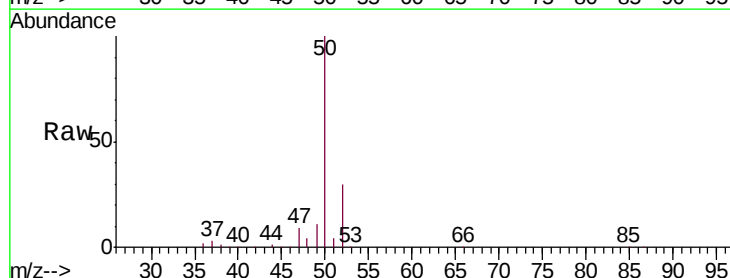
Instrument :
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ClientSampleId :
VSTDCCC010

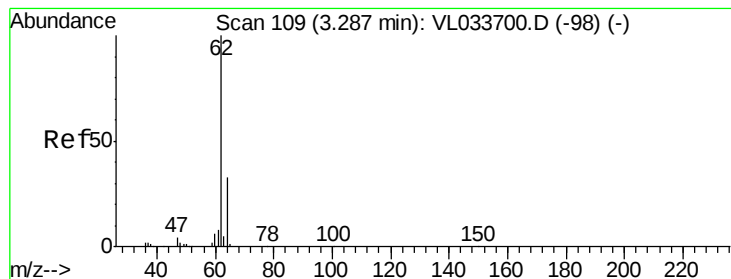
Tgt Ion: 51 Resp: 1003829
Ion Ratio Lower Upper
51 100
67 19.6 15.6 23.4



#4
Chloromethane
Concen: 9.950 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 50 Resp: 613087
Ion Ratio Lower Upper
50 100
52 30.3 25.7 38.5





#5

Vinyl Chloride

Concen: 9.727 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

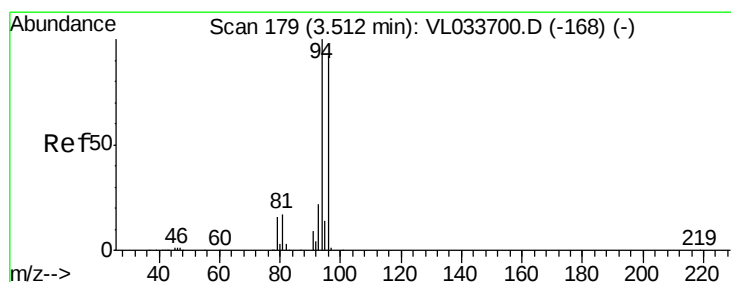
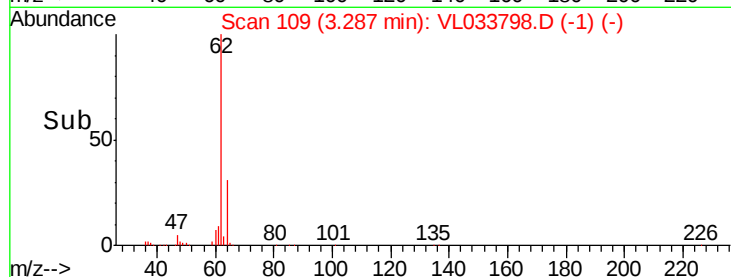
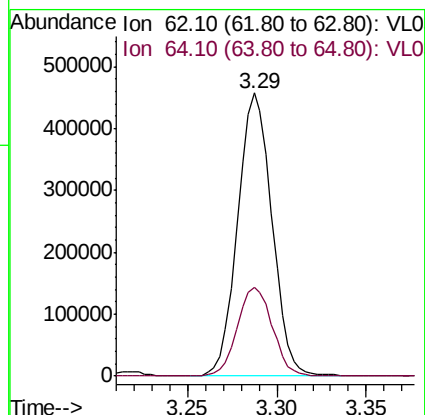
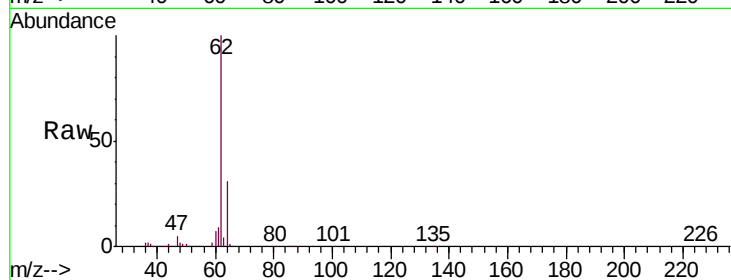
VSTDCCC010

Tgt Ion: 62 Resp: 610572

Ion Ratio Lower Upper

62 100

64 31.4 26.4 39.6



#6

Bromomethane

Concen: 9.950 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033798.D

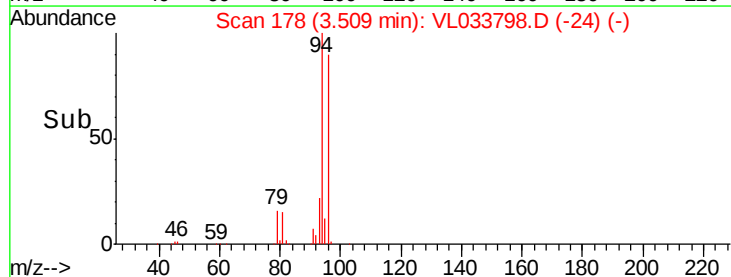
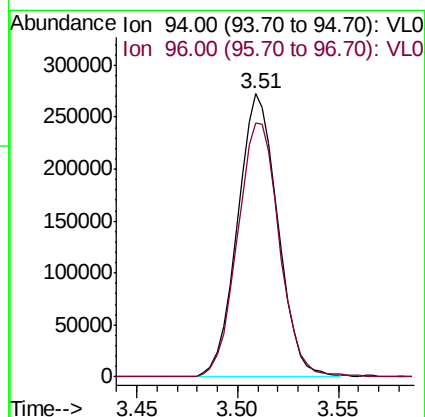
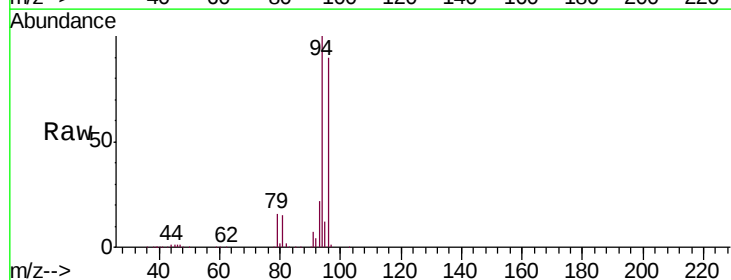
Acq: 28 May 2019 8:53

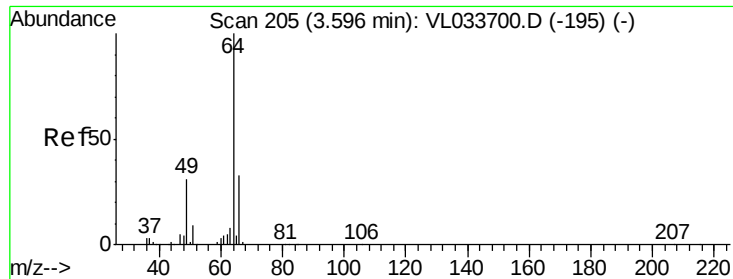
Tgt Ion: 94 Resp: 381082

Ion Ratio Lower Upper

94 100

96 89.5 73.6 110.4





#7

Chloroethane

Concen: 10.102 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

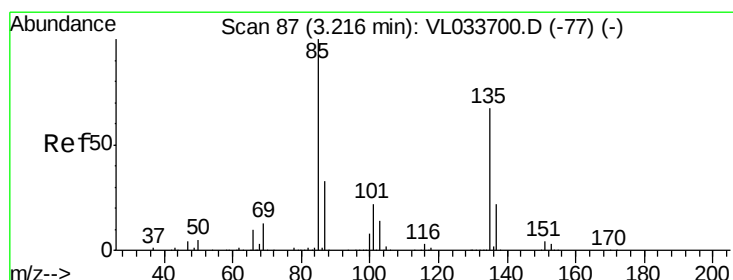
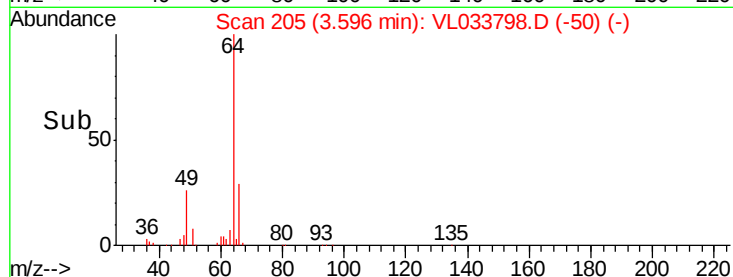
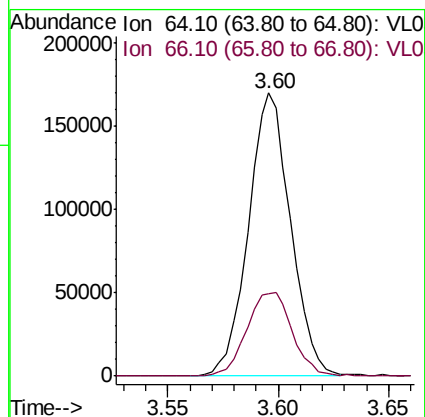
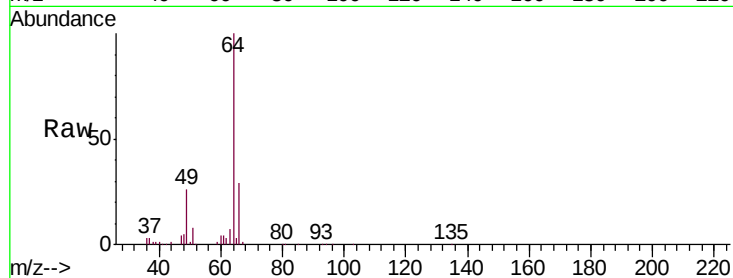
VSTDCCC010

Tgt Ion: 64 Resp: 225346

Ion Ratio Lower Upper

64 100

66 29.3 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 9.624 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033798.D

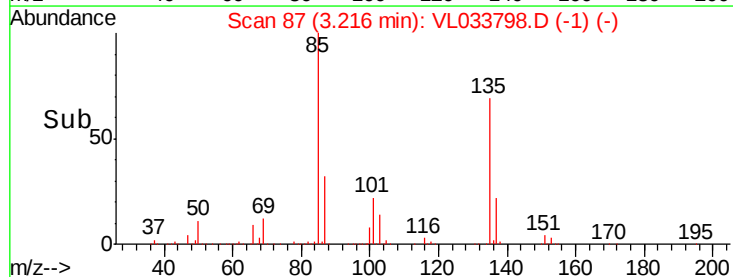
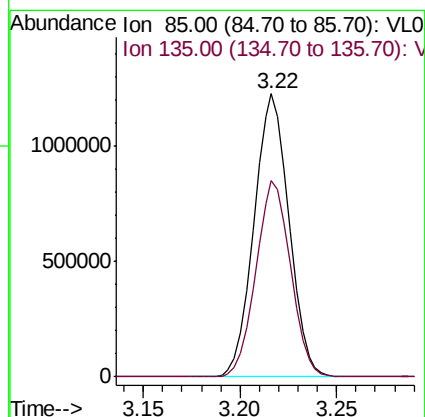
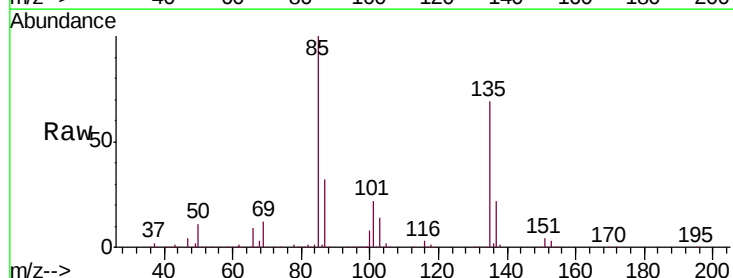
Acq: 28 May 2019 8:53

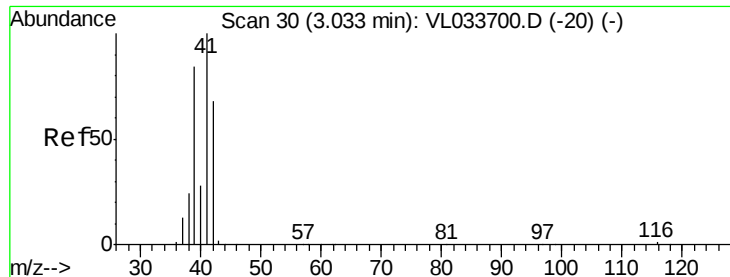
Tgt Ion: 85 Resp: 1537853

Ion Ratio Lower Upper

85 100

135 69.1 54.5 81.7





#9

Propene

Concen: 10.360 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

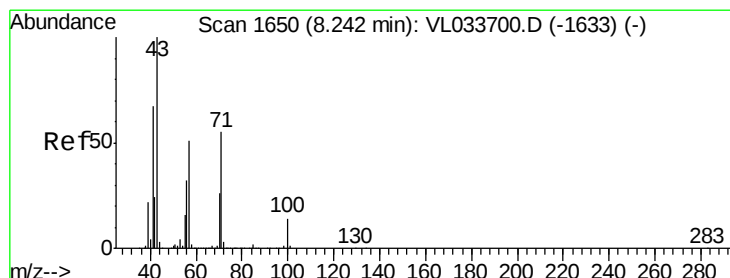
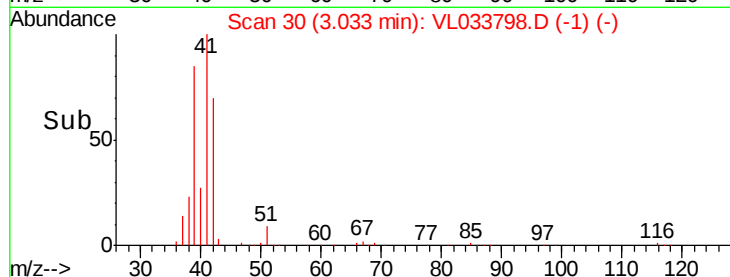
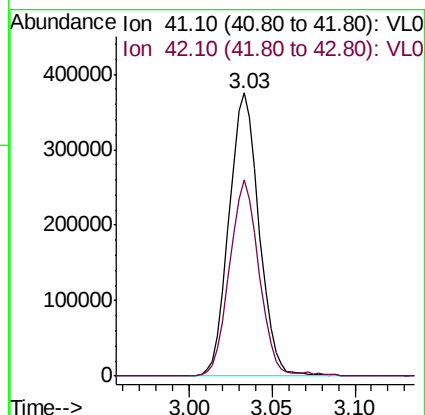
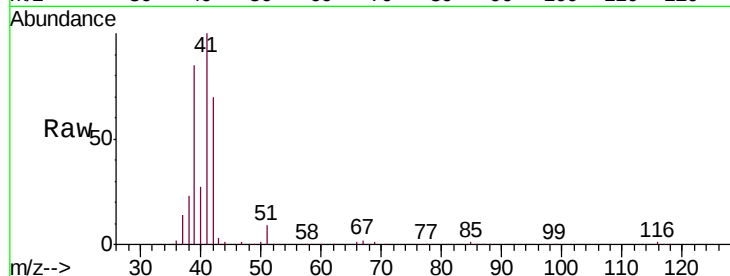
VSTDCCC010

Tgt Ion: 41 Resp: 474719

Ion Ratio Lower Upper

41 100

42 68.9 56.1 84.1



#10

Heptane

Concen: 10.720 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033798.D

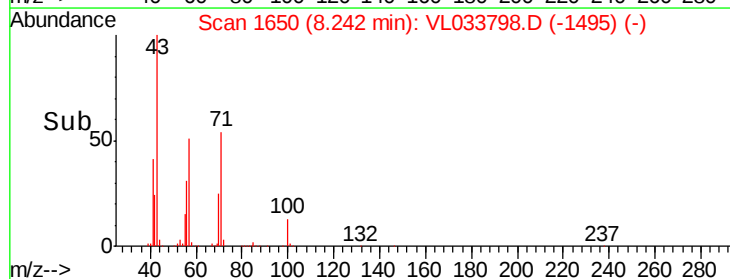
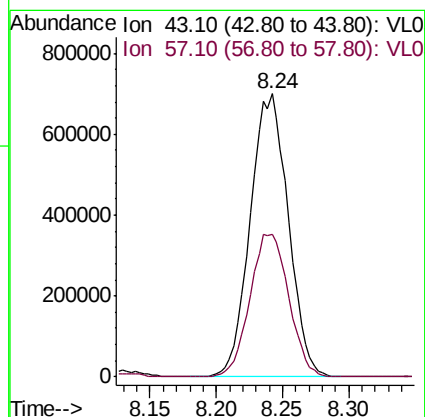
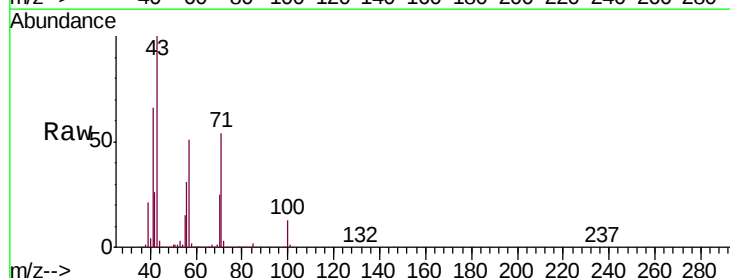
Acq: 28 May 2019 8:53

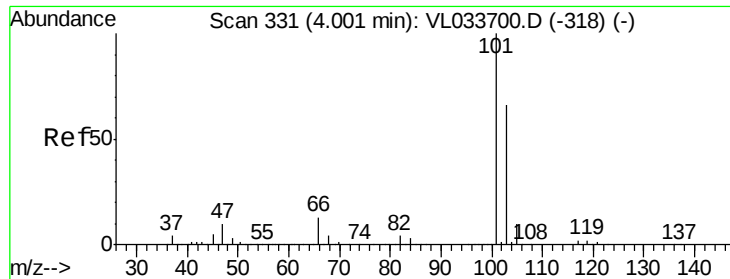
Tgt Ion: 43 Resp: 1391101

Ion Ratio Lower Upper

43 100

57 51.6 41.4 62.0

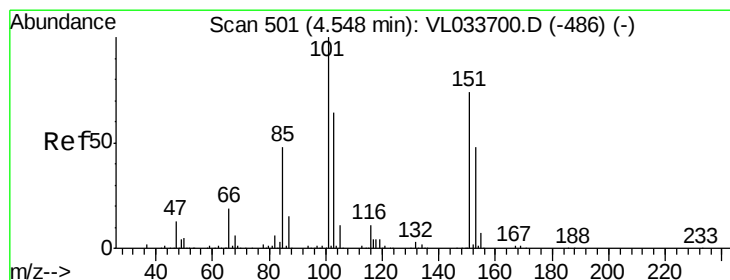
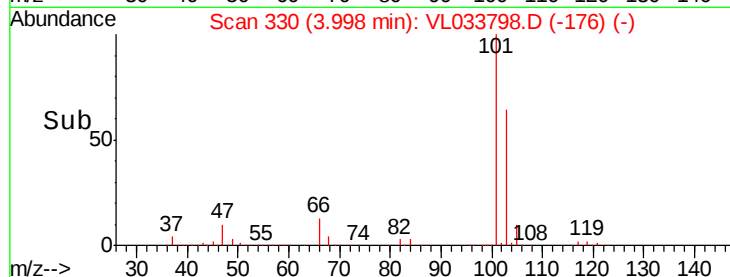
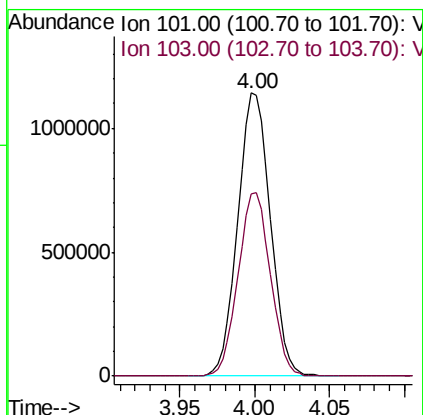
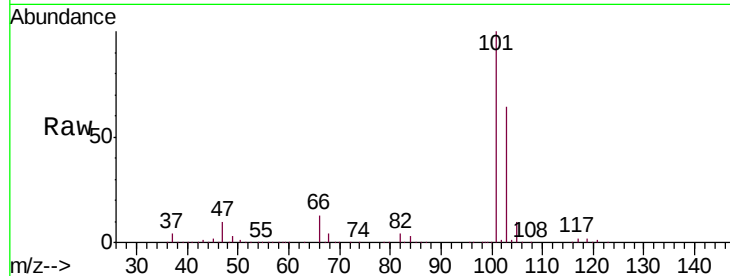




#11
 Trichlorofluoromethane
 Concen: 9.181 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

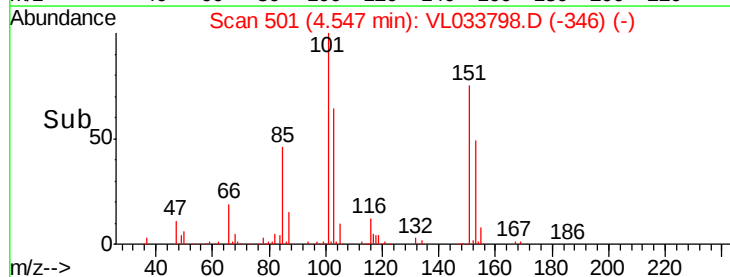
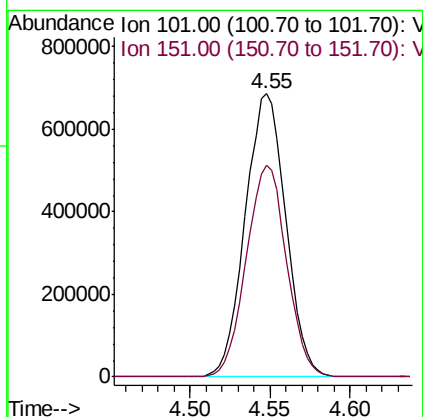
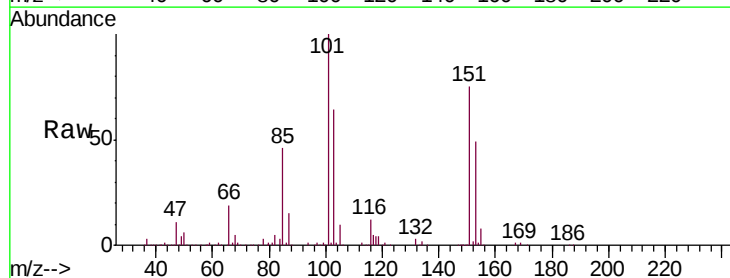
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

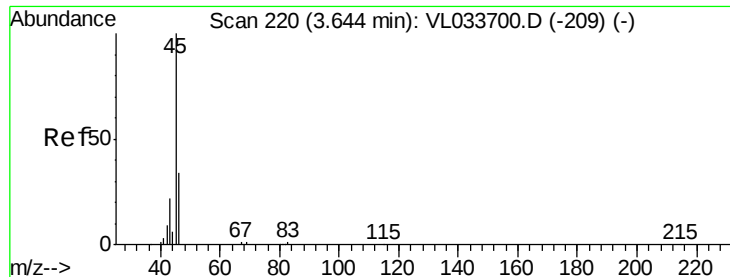
Tgt Ion:101 Resp: 1736879
 Ion Ratio Lower Upper
 101 100
 103 64.2 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.992 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion:101 Resp: 1187926
 Ion Ratio Lower Upper
 101 100
 151 74.5 58.2 87.4





#13

Ethanol

Concen: 5.850 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

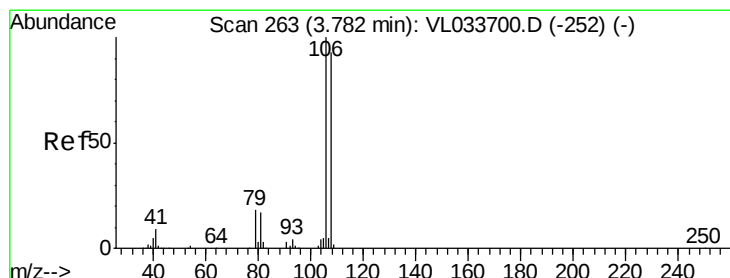
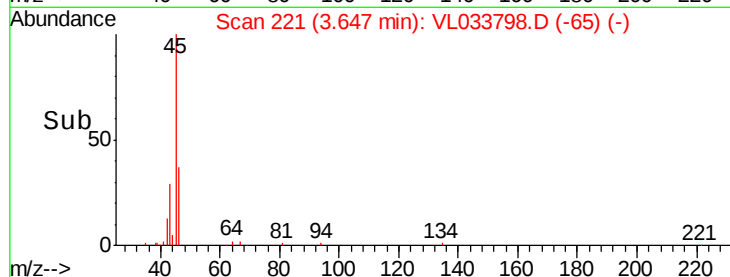
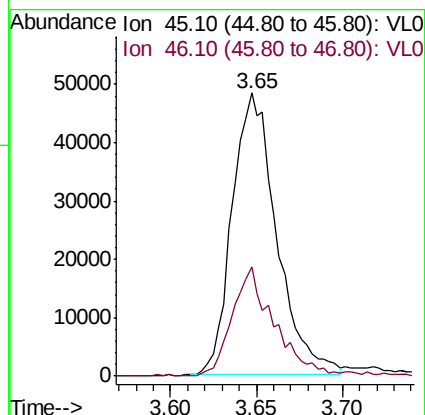
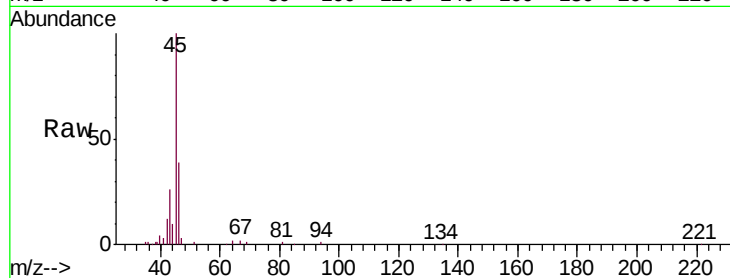
VSTDCCC010

Tgt Ion: 45 Resp: 86646

Ion Ratio Lower Upper

45 100

46 37.6 14.8 59.0



#14

Bromoethene

Concen: 10.470 ppbv

RT: 3.78 min Scan# 263

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

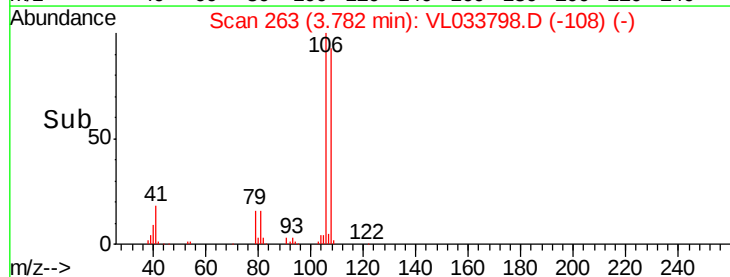
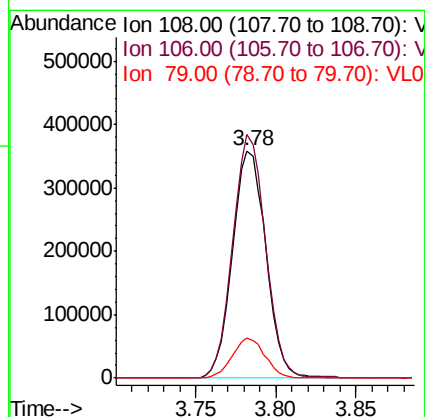
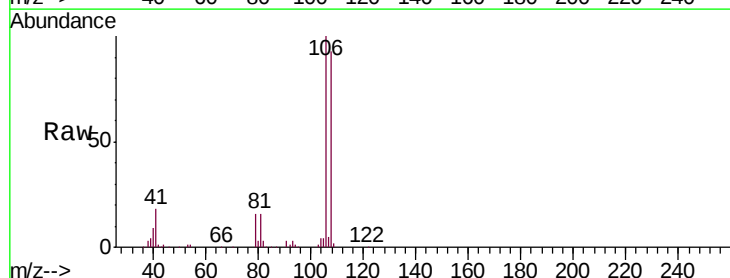
Tgt Ion: 108 Resp: 508474

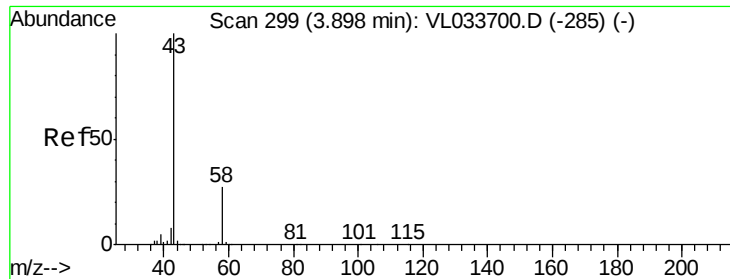
Ion Ratio Lower Upper

108 100

106 105.5 86.5 129.7

79 17.7 15.1 22.7





#15

Acetone

Concen: 8.485 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

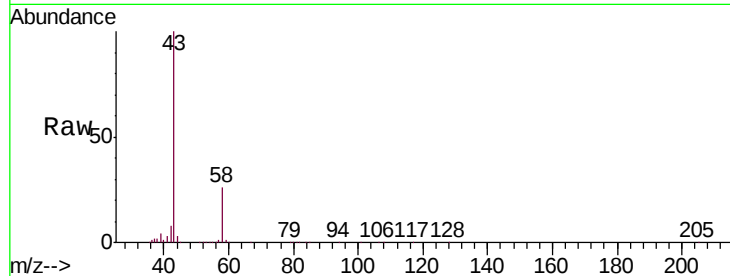
VSTDCCC010

Tgt Ion: 43 Resp: 1107246

Ion Ratio Lower Upper

43 100

58 26.7 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

600000

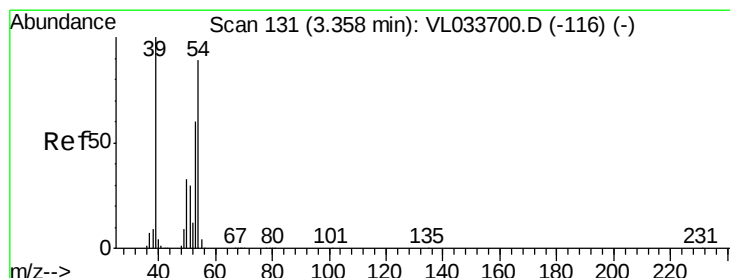
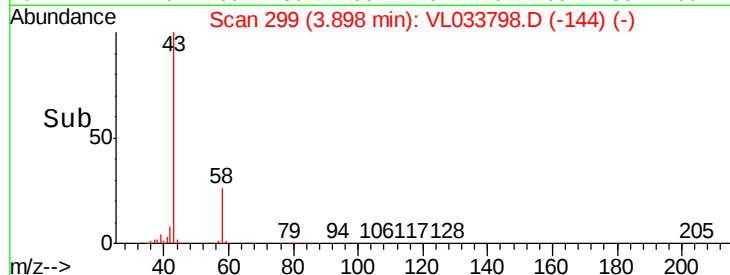
400000

200000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 10.209 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033798.D

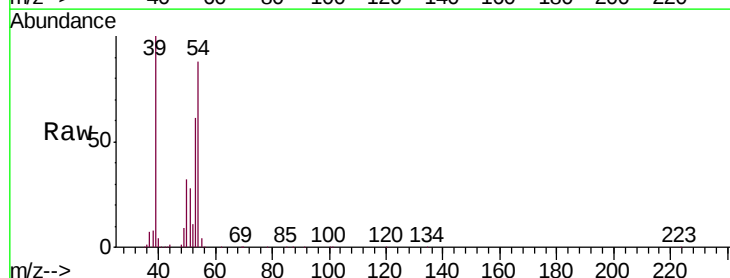
Acq: 28 May 2019 8:53

Tgt Ion: 39 Resp: 530494

Ion Ratio Lower Upper

39 100

54 87.0 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

400000

300000

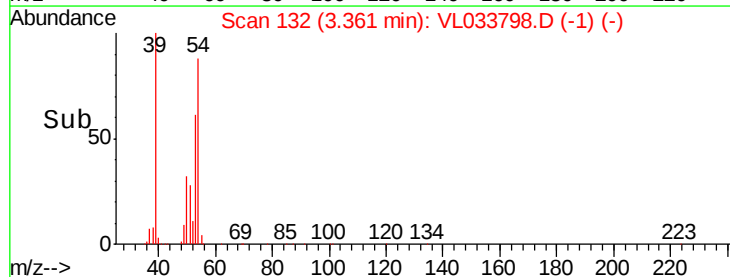
200000

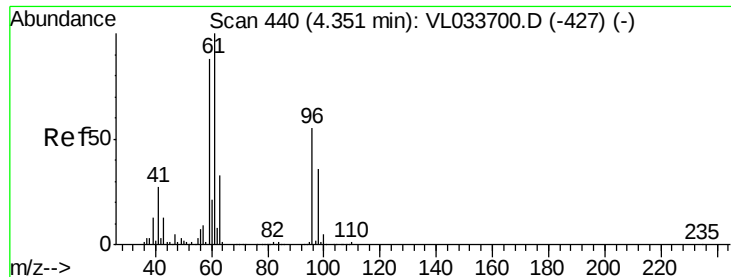
100000

0

Time-->

3.30 3.35 3.40



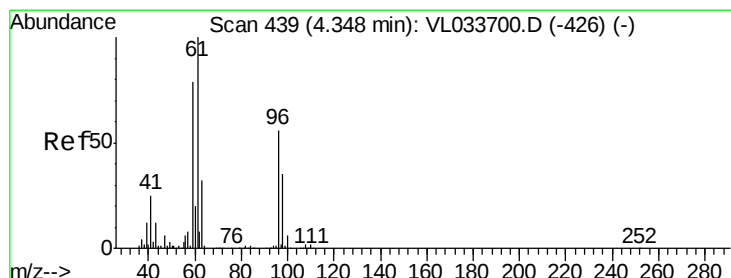
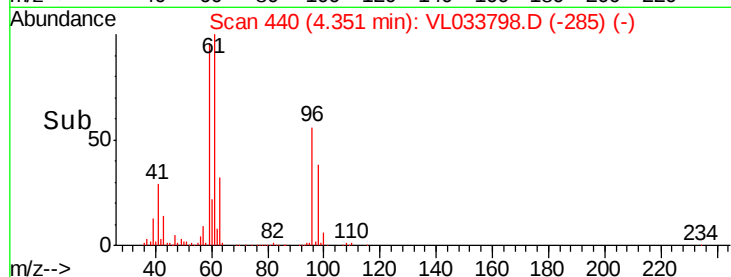
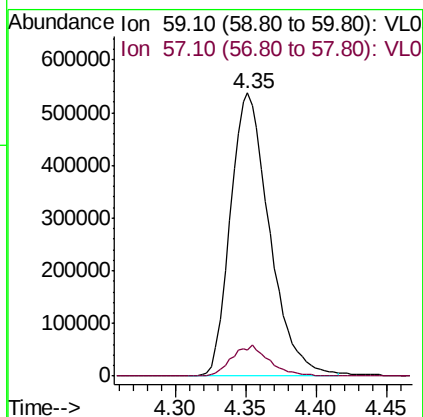
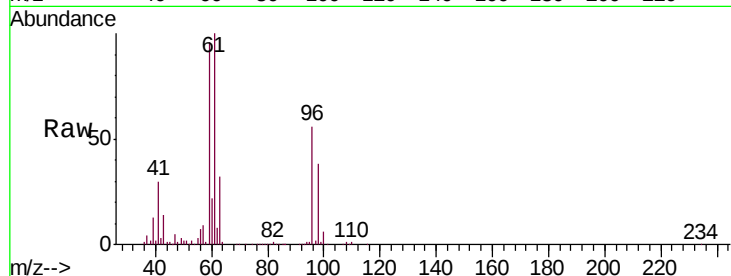


#17

tert-Butyl alcohol
Concen: 9.891 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

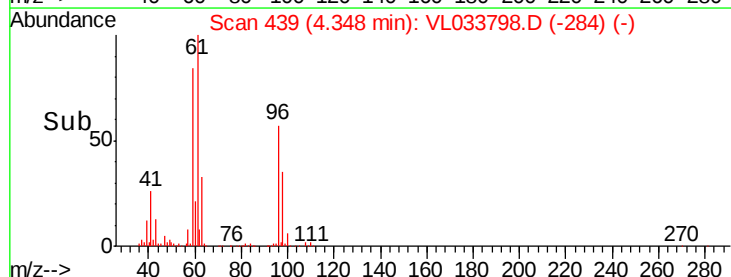
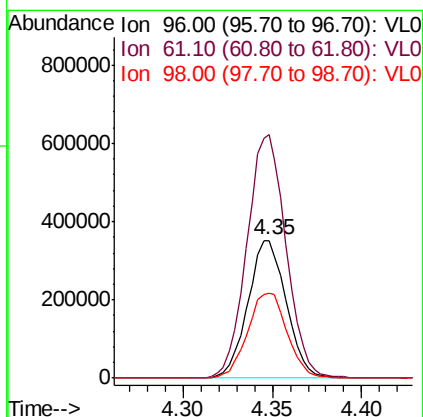
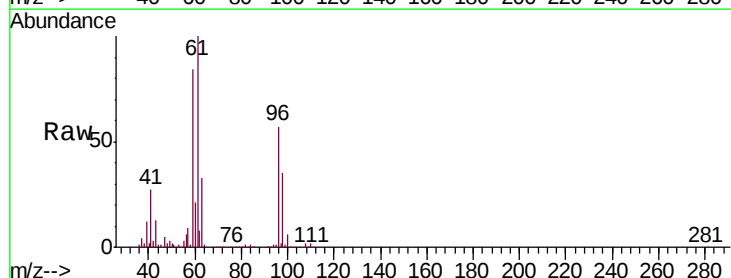
Tgt Ion: 59 Resp: 1043654
Ion Ratio Lower Upper
59 100
57 10.6 8.4 12.6

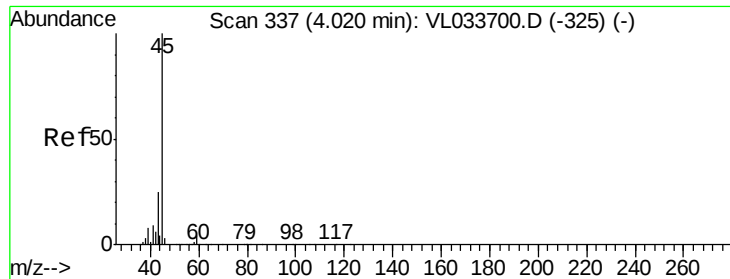


#18

1,1-Dichloroethene
Concen: 9.537 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 96 Resp: 531778
Ion Ratio Lower Upper
96 100
61 176.8 143.1 214.7
98 62.1 49.5 74.3





#19

Isopropyl Alcohol

Concen: 8.795 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

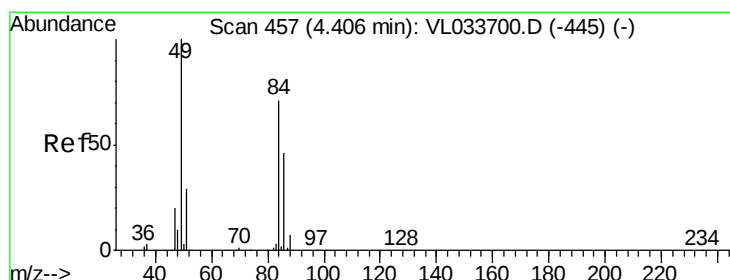
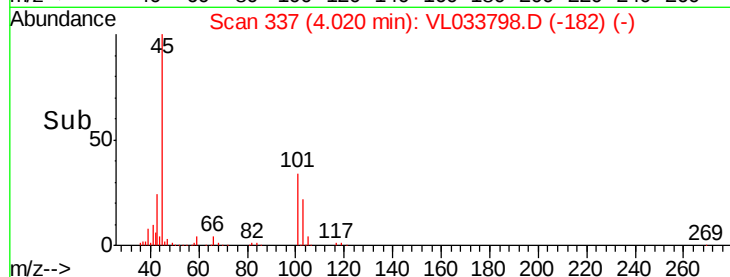
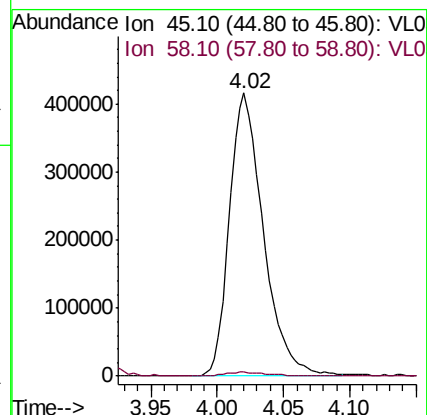
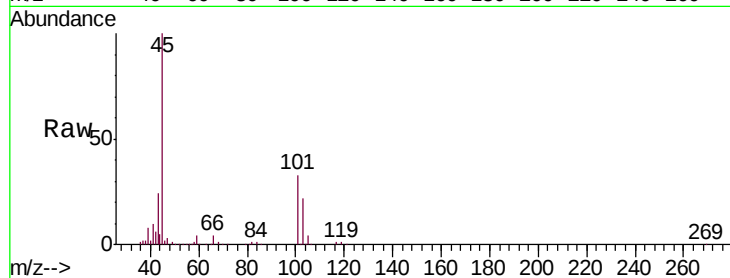
VSTDCCC010

Tgt Ion: 45 Resp: 739996

Ion Ratio Lower Upper

45 100

58 1.9 1.6 2.4



#20

Methylene Chloride

Concen: 8.970 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Tgt Ion: 84 Resp: 450703

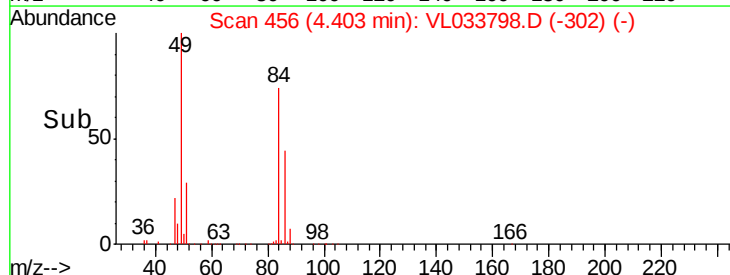
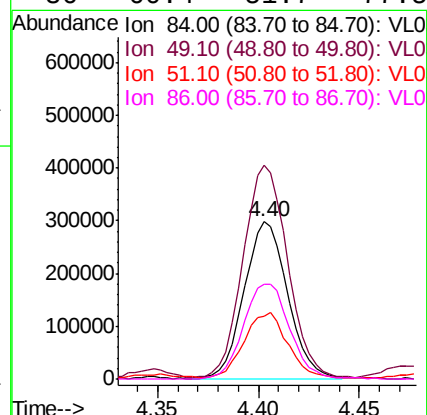
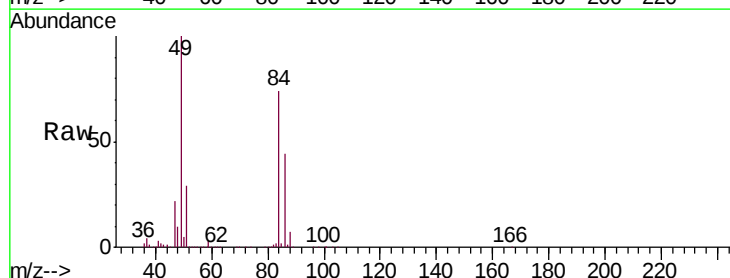
Ion Ratio Lower Upper

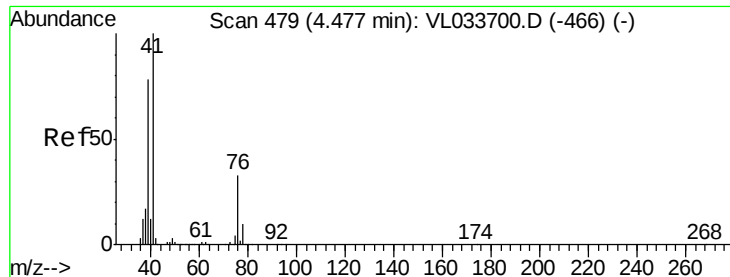
84 100

49 135.1 112.8 169.2

51 38.6 33.4 50.0

86 60.4 51.7 77.5





#21

Allyl Chloride

Concen: 9.429 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

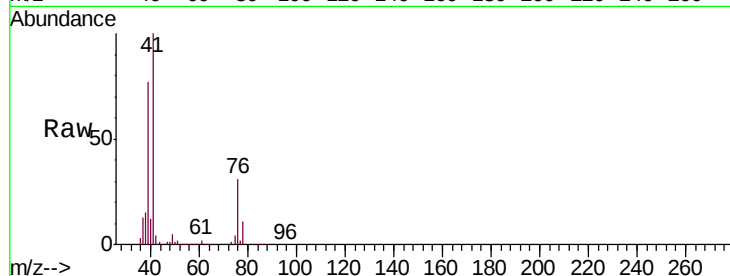
Tgt Ion: 41 Resp: 767489

Ion Ratio Lower Upper

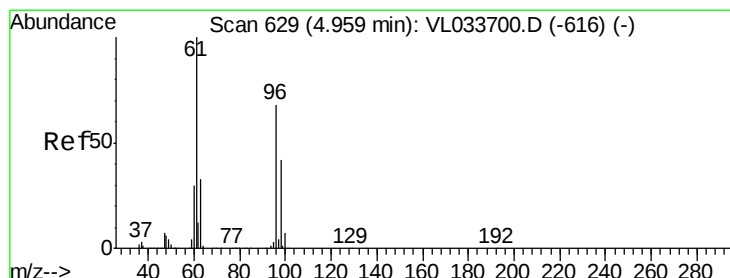
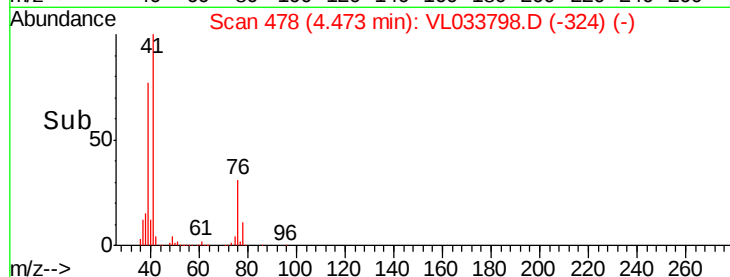
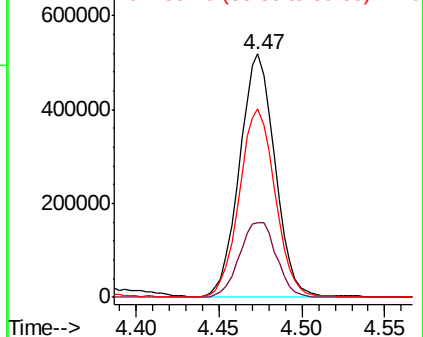
41 100

76 32.5 25.9 38.9

39 78.7 64.6 97.0



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.605 ppbv

RT: 4.96 min Scan# 628

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

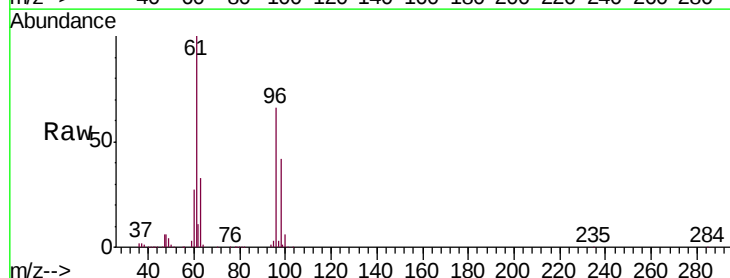
Tgt Ion: 96 Resp: 548947

Ion Ratio Lower Upper

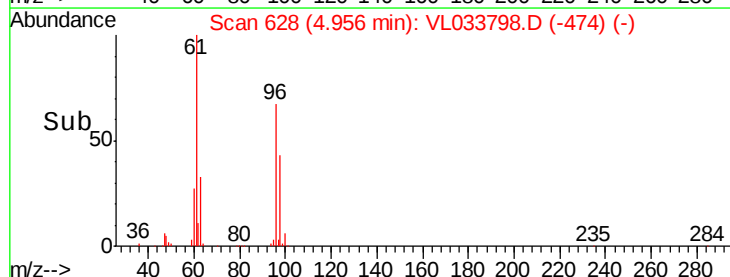
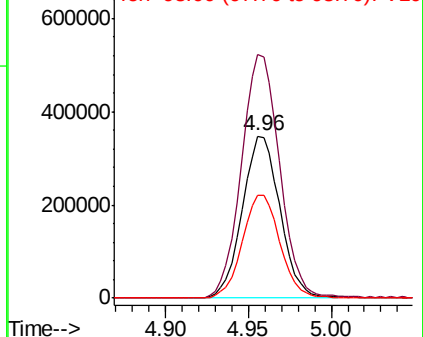
96 100

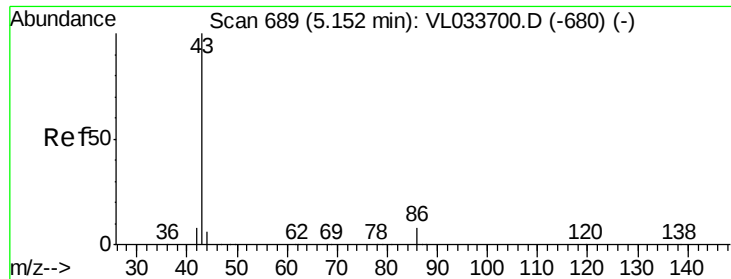
61 150.4 116.8 175.2

98 63.8 49.4 74.0



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



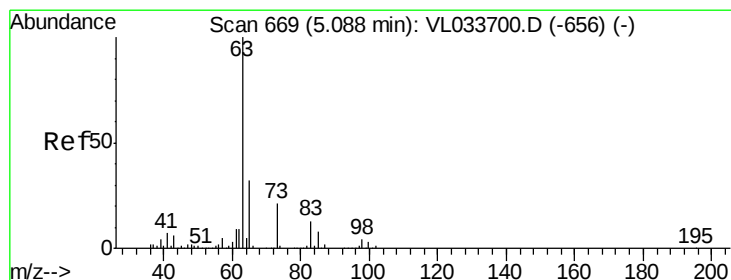
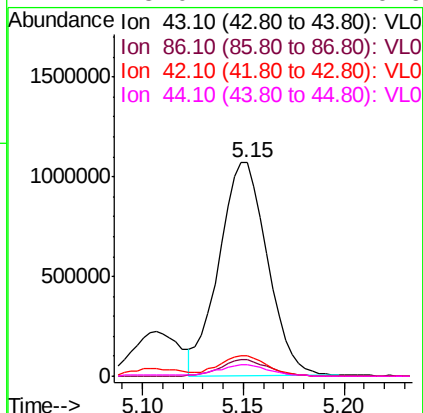
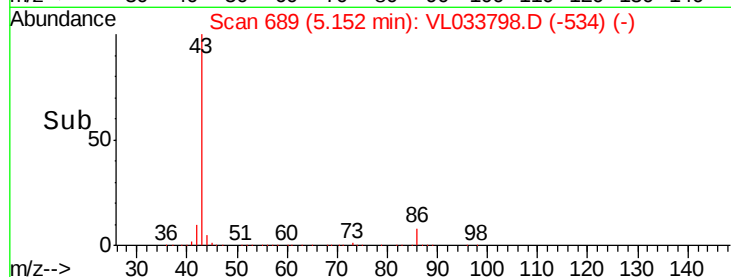
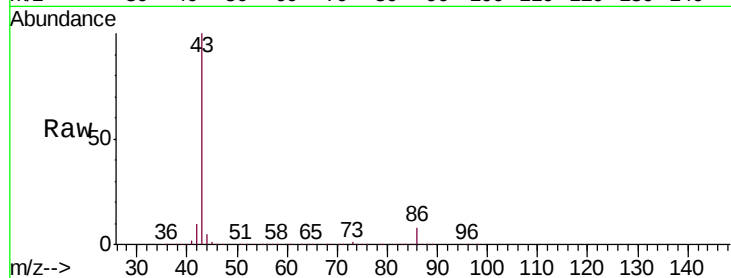


#23
 Vinyl Acetate
 Concen: 10.380 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 1785907

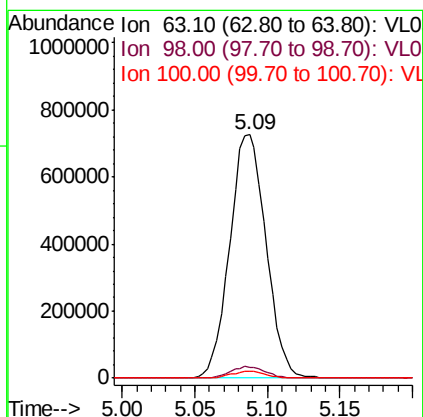
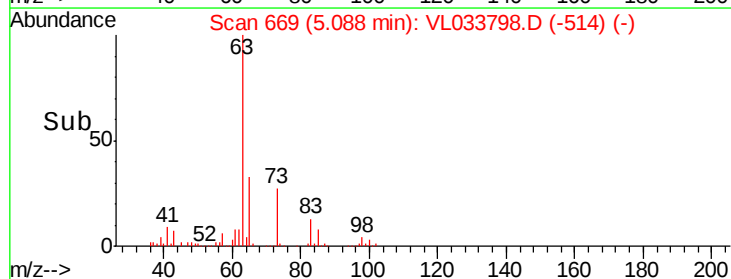
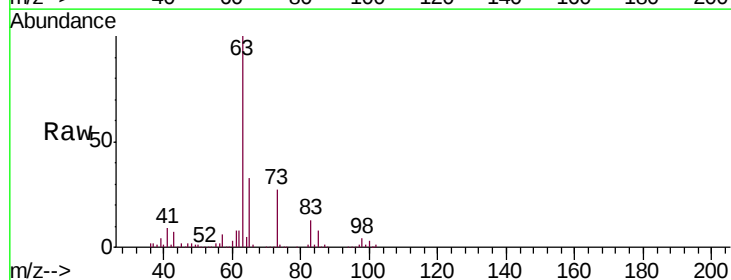
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.0	9.0
42	9.7	7.5	11.3
44	5.0	4.4	6.6

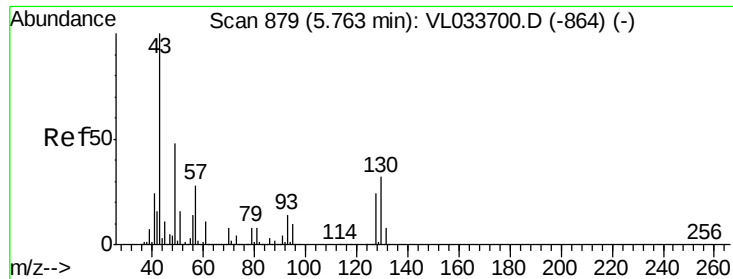


#24
 1,1-Dichloroethane
 Concen: 9.647 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion: 63 Resp: 1261744

Ion	Ratio	Lower	Upper
63	100		
98	4.3	1.8	5.5
100	2.9	1.4	4.2



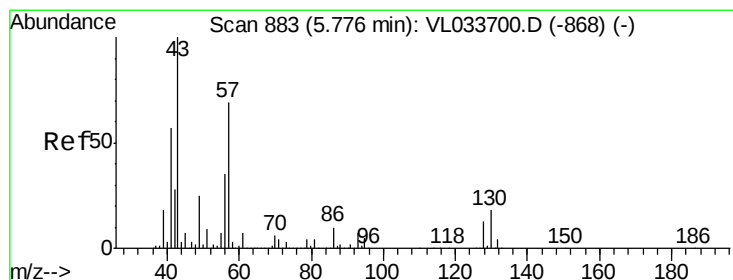
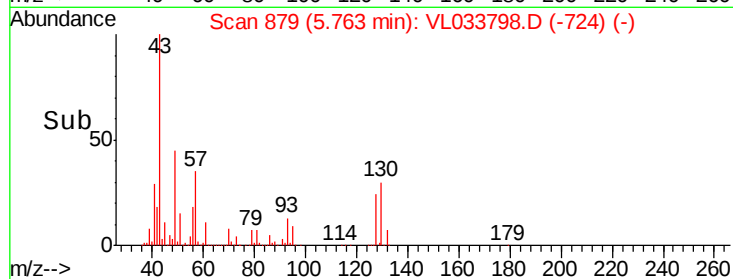
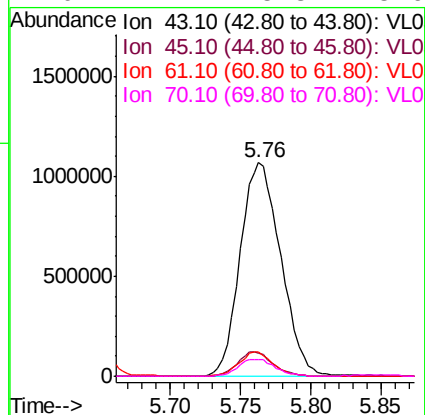
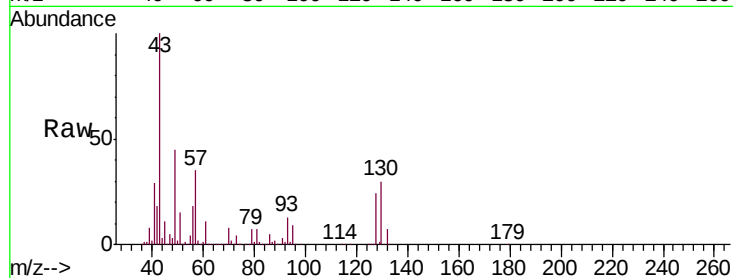


#25
Ethyl Acetate
Concen: 9.342 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 2141575

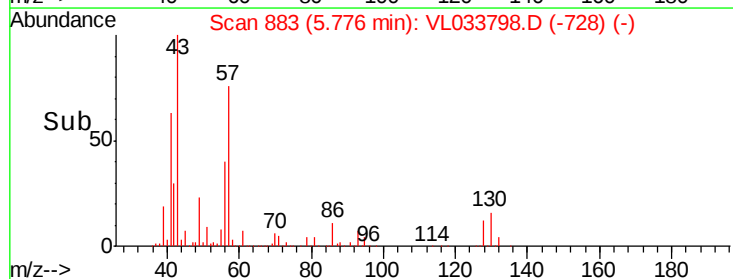
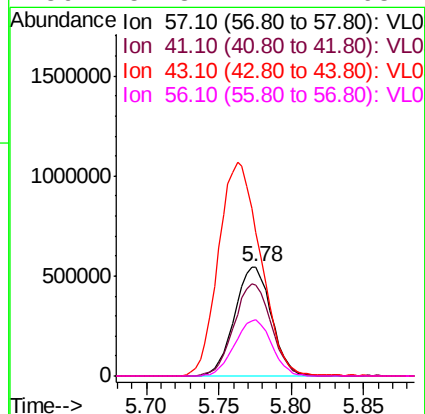
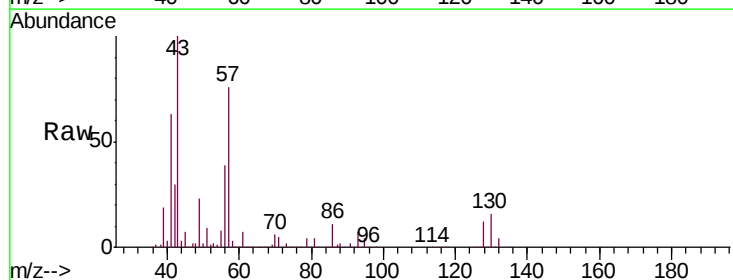
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.7	7.7	11.5
70	7.4	5.8	8.6

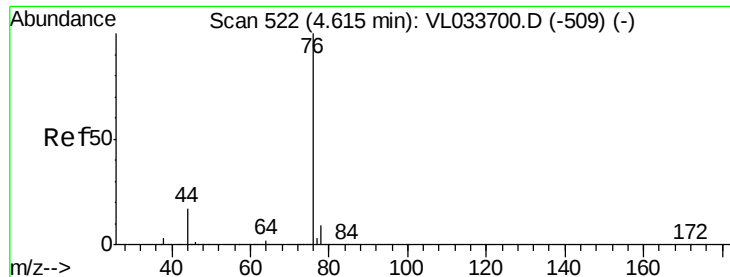


#26
Hexane
Concen: 9.715 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 57 Resp: 957358

Ion	Ratio	Lower	Upper
57	100		
41	86.1	69.8	104.6
43	225.0	181.8	272.6
56	52.3	42.1	63.1

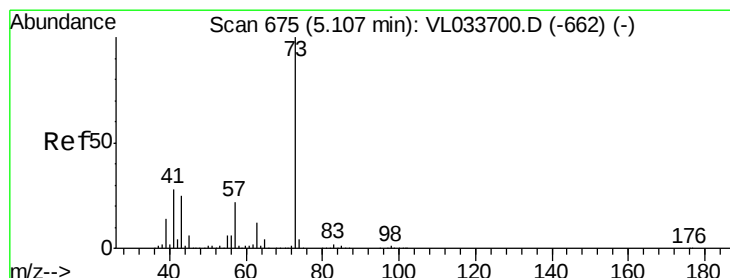
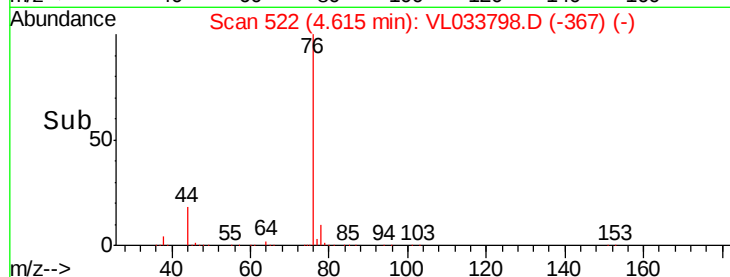
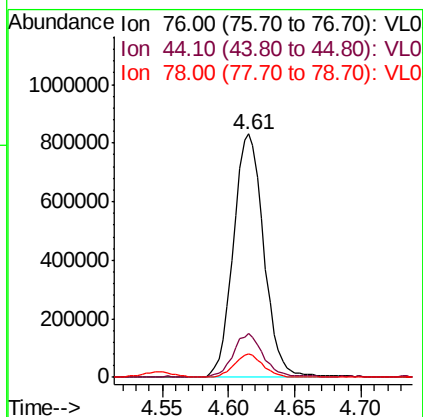
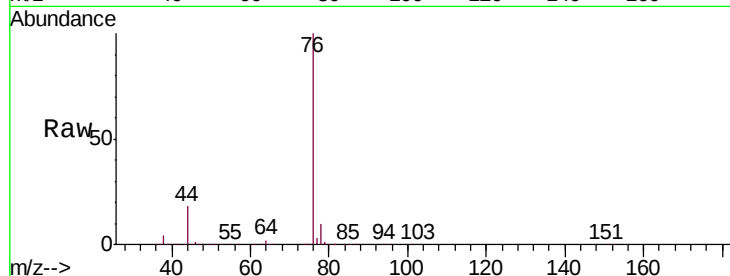




#27
Carbon Disulfide
Concen: 9.809 ppbv
RT: 4.61 min Scan# 522
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

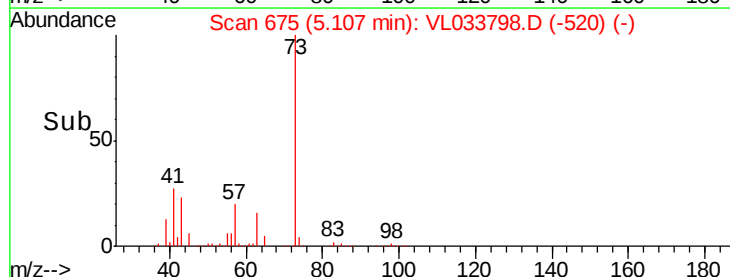
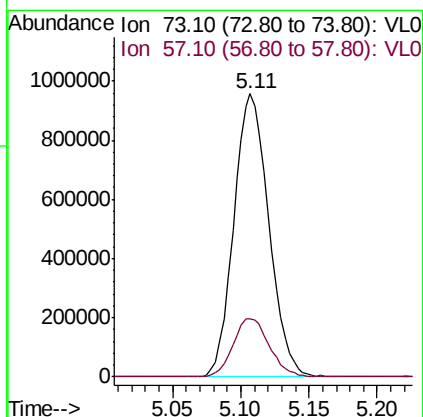
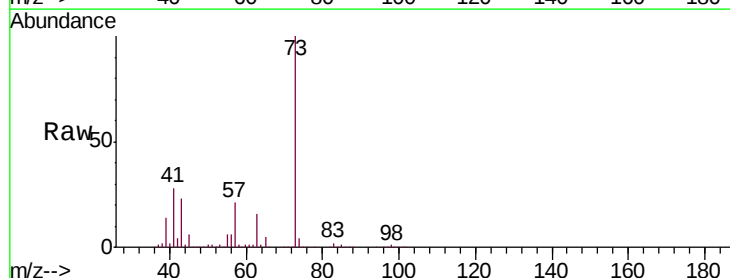
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

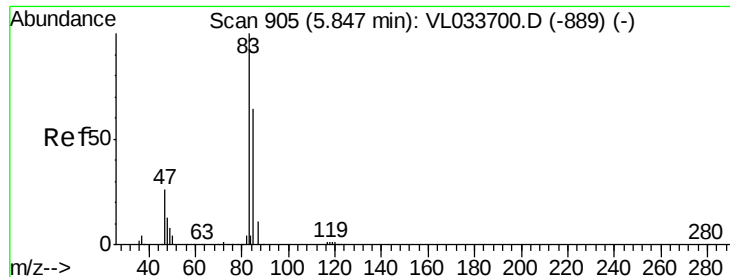
Tgt Ion: 76 Resp: 1326250
Ion Ratio Lower Upper
76 100
44 17.1 13.8 20.8
78 9.3 7.4 11.0



#28
Methyl tert-Butyl Ether
Concen: 10.600 ppbv
RT: 5.11 min Scan# 675
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 73 Resp: 1702937
Ion Ratio Lower Upper
73 100
57 21.5 17.4 26.2

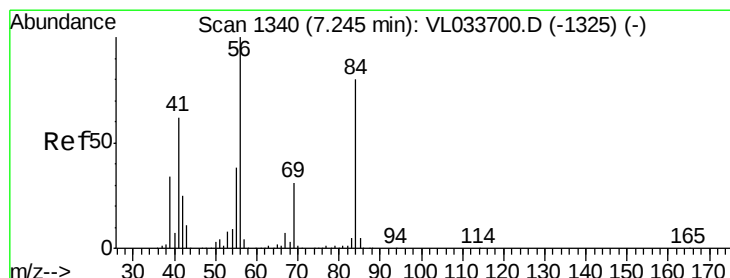
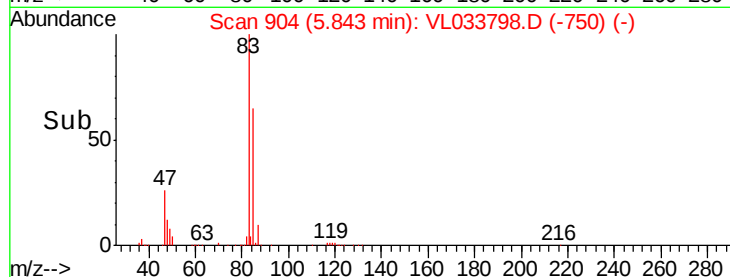
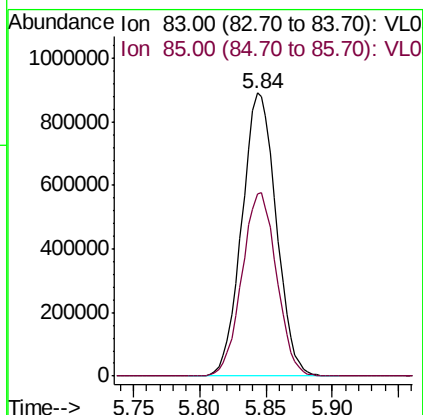
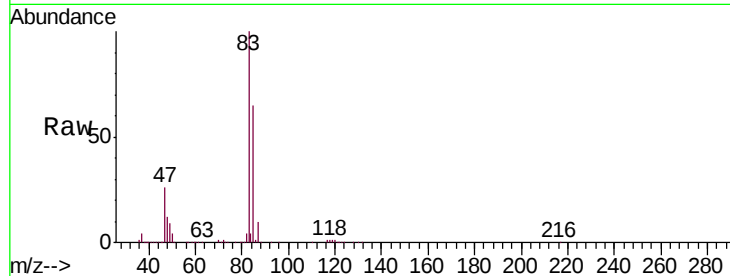




#29
Chloroform
Concen: 8.850 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

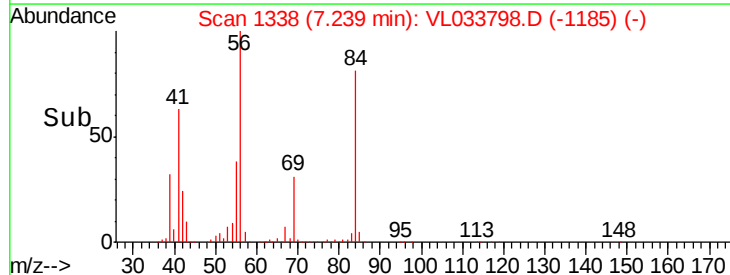
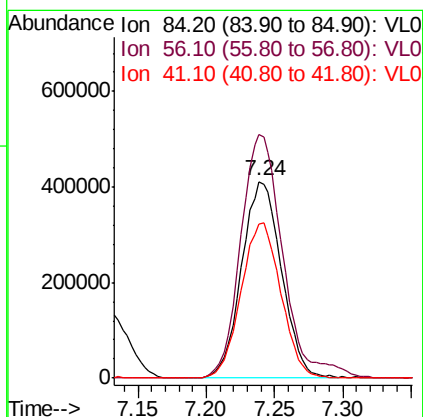
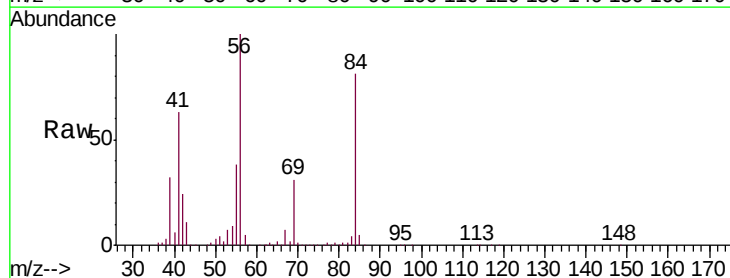
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

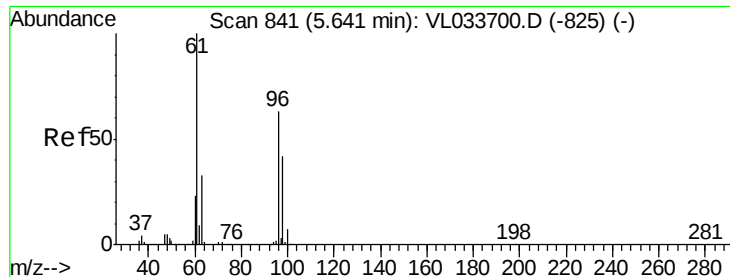
Tgt Ion: 83 Resp: 1606486
Ion Ratio Lower Upper
83 100
85 64.5 51.5 77.3



#30
Cyclohexane
Concen: 10.075 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 84 Resp: 834743
Ion Ratio Lower Upper
84 100
56 131.3 107.7 161.5
41 79.1 66.0 99.0





#31

cis-1,2-Dichloroethene

Concen: 9.964 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

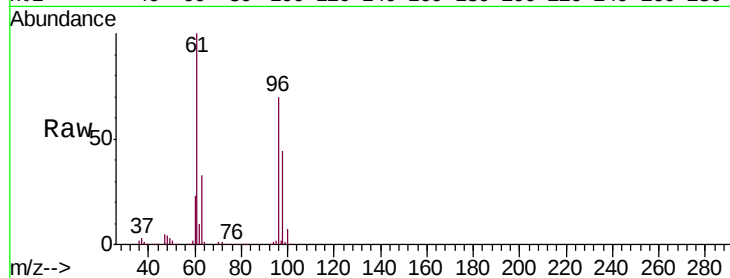
Tgt Ion: 61 Resp: 973645

Ion Ratio Lower Upper

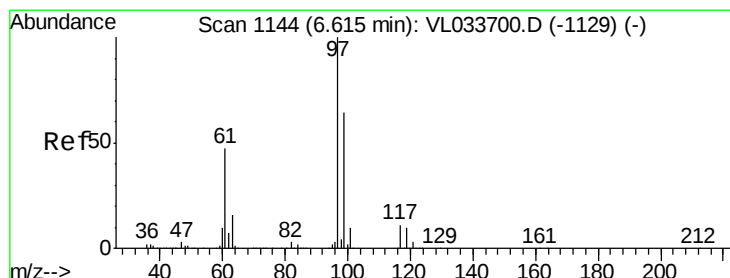
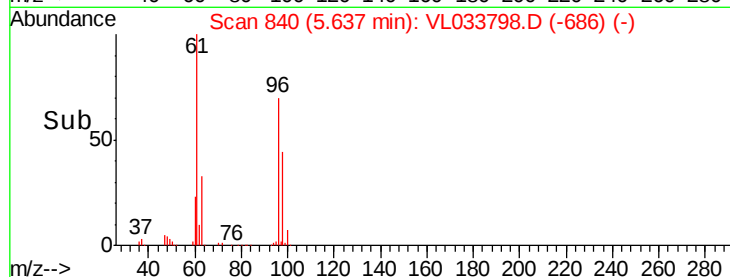
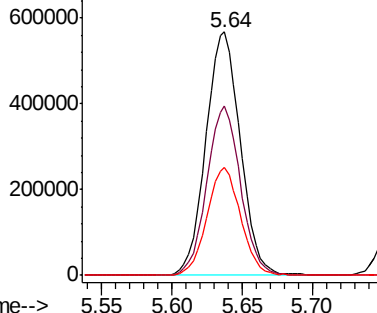
61 100

96 69.7 50.8 76.2

98 44.3 33.3 49.9



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: 9.193 ppbv

RT: 6.61 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

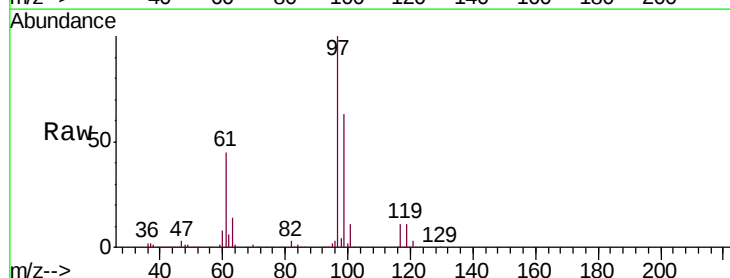
Tgt Ion: 97 Resp: 1666243

Ion Ratio Lower Upper

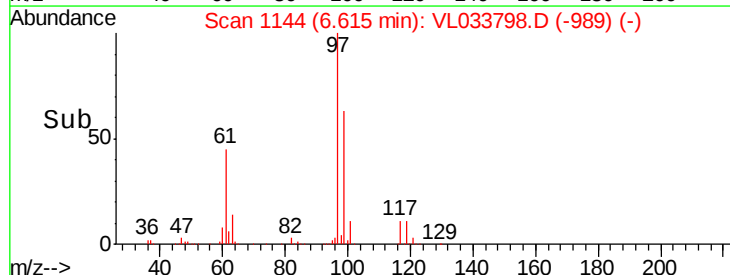
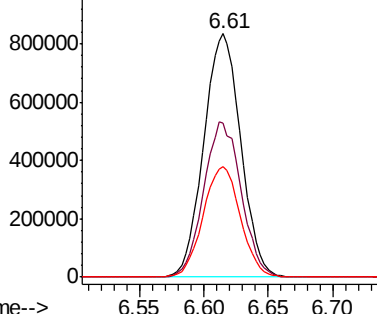
97 100

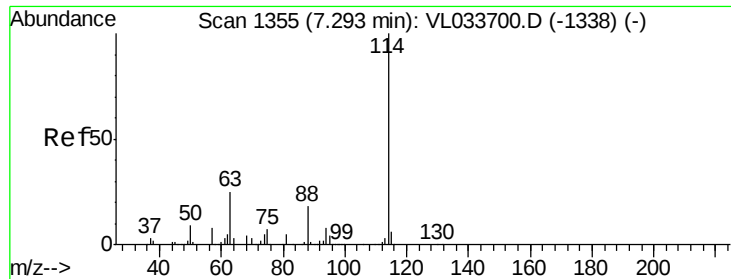
99 64.7 51.5 77.3

61 45.9 37.8 56.8



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

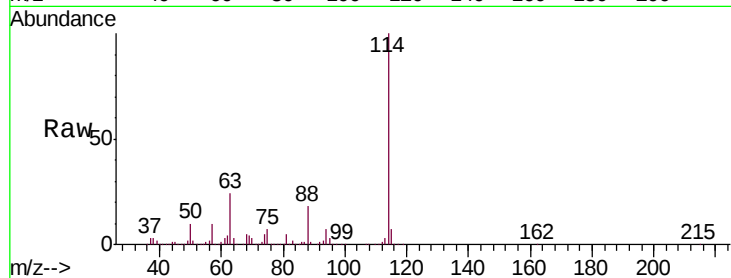




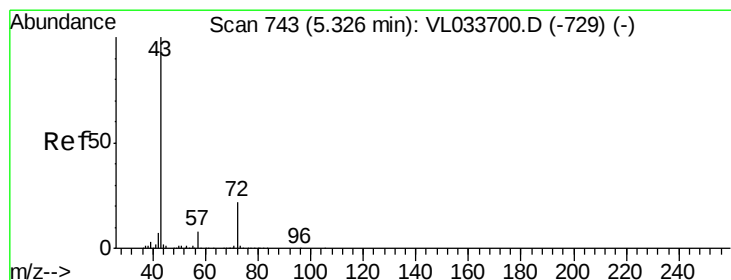
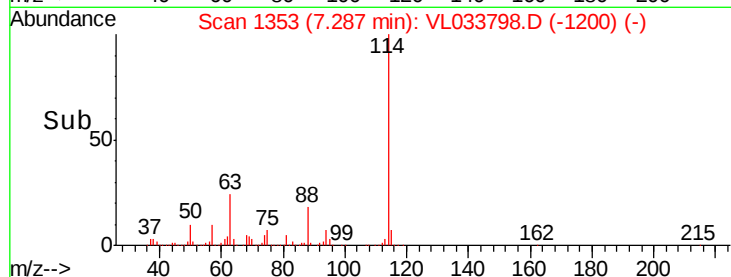
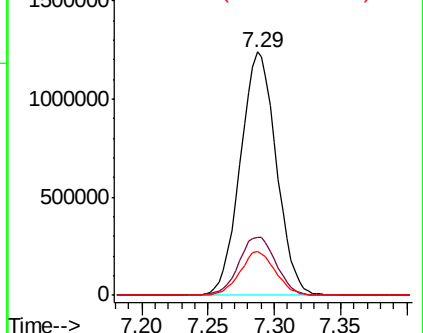
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:114 Resp: 2328813
 Ion Ratio Lower Upper
 114 100
 63 25.2 20.9 31.3
 88 17.6 14.3 21.5

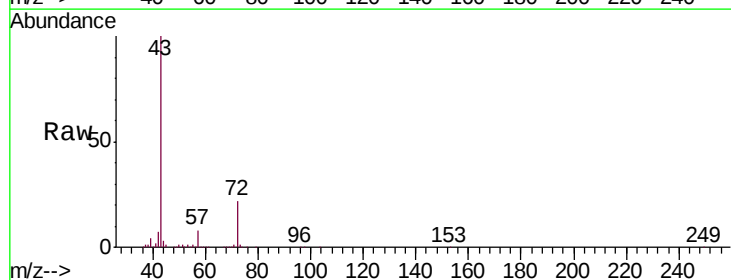


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

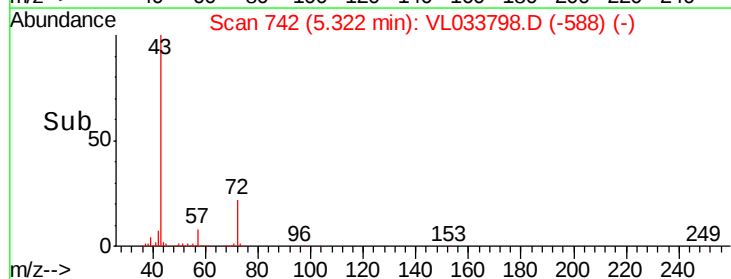
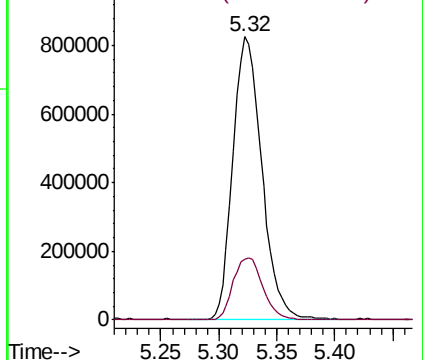


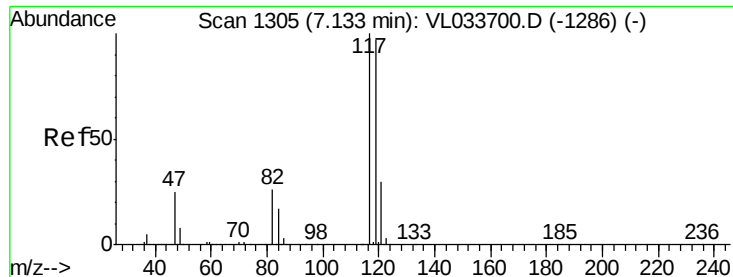
#34
 2-Butanone
 Concen: 9.860 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion: 43 Resp: 1423353
 Ion Ratio Lower Upper
 43 100
 72 22.8 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.293 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

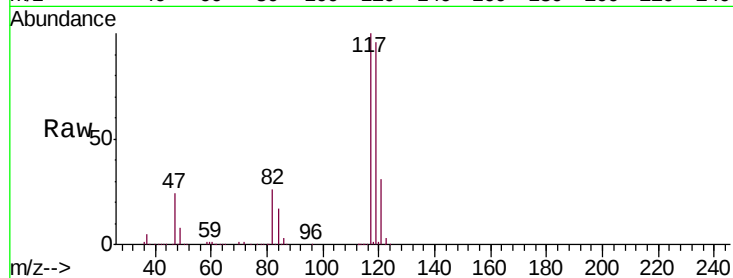
Tgt Ion: 117 Resp: 1733596

Ion Ratio Lower Upper

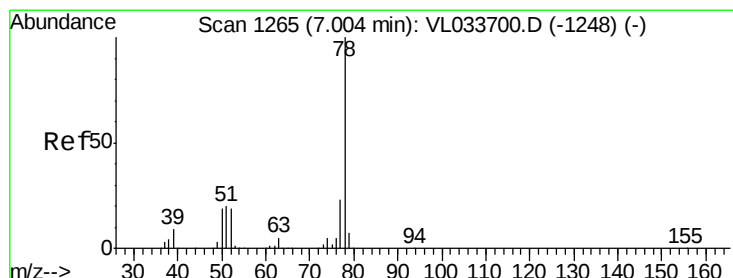
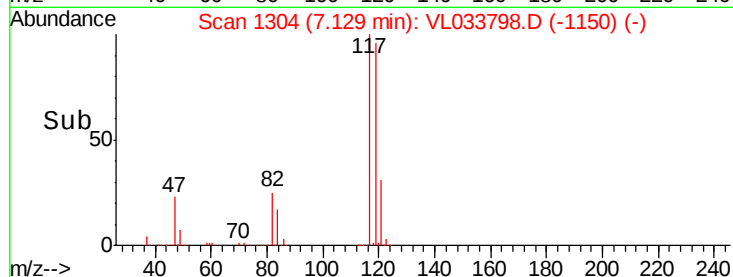
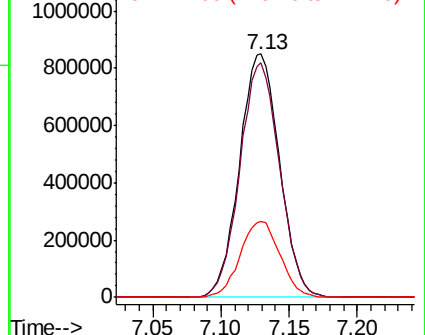
117 100

119 96.3 77.2 115.8

121 31.2 24.1 36.1



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: 9.626 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

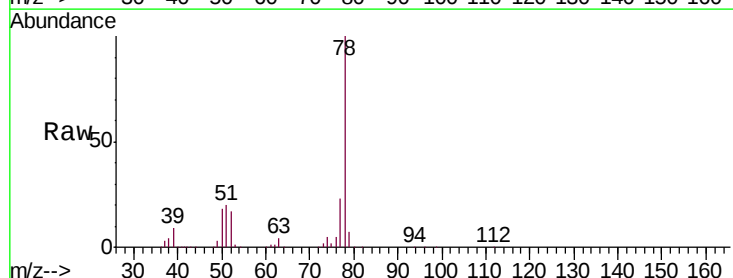
Tgt Ion: 78 Resp: 2039197

Ion Ratio Lower Upper

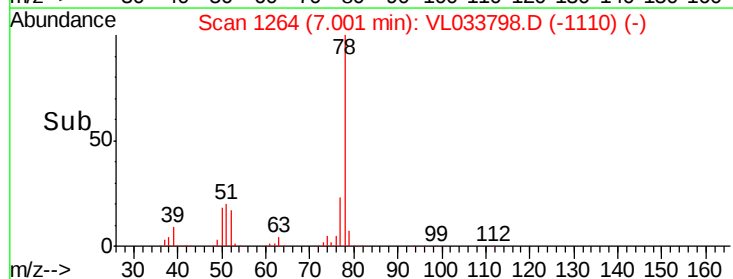
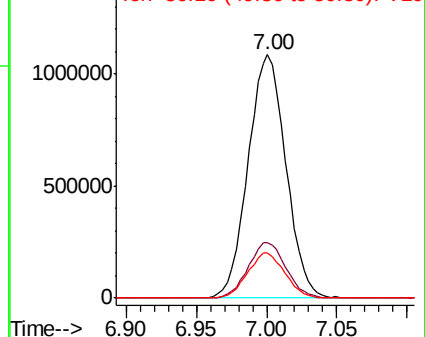
78 100

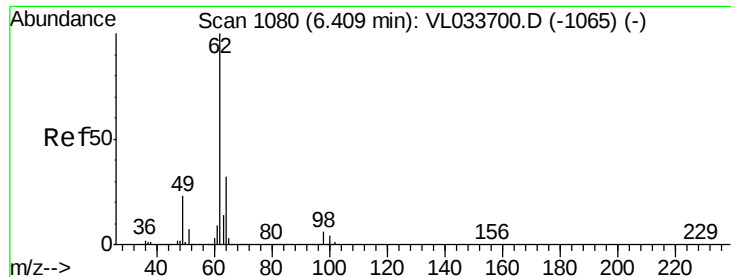
77 22.6 18.4 27.6

50 18.3 15.5 23.3



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: 8.880 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

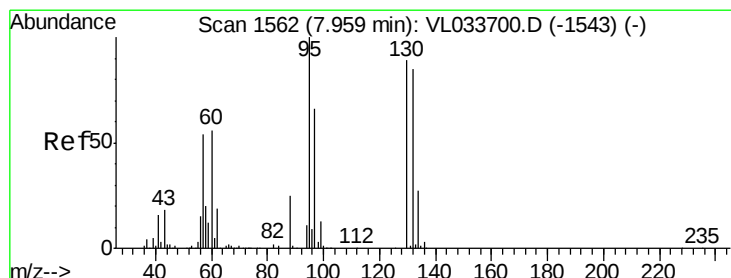
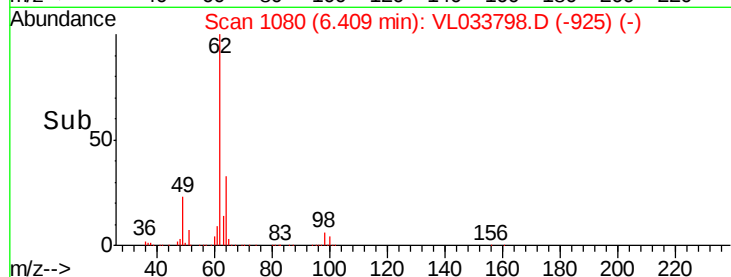
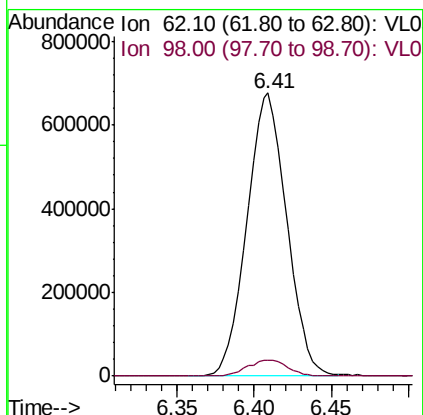
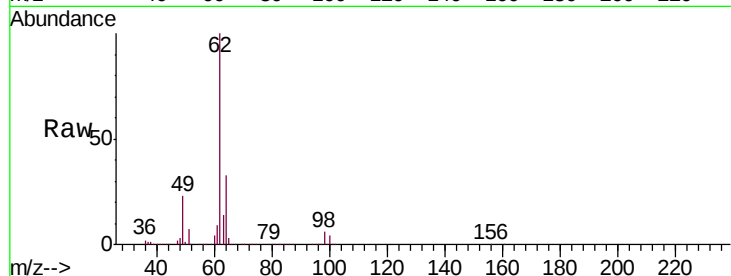
VSTDCCC010

Tgt Ion: 62 Resp: 1213418

Ion Ratio Lower Upper

62 100

98 5.9 4.5 6.7



#38

Trichloroethene

Concen: 10.352 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Tgt Ion: 130 Resp: 813718

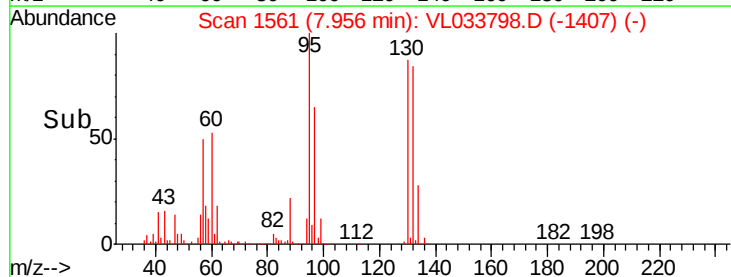
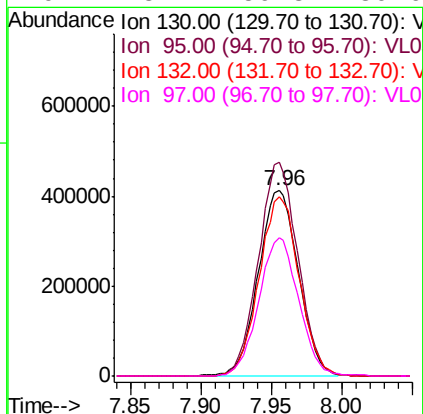
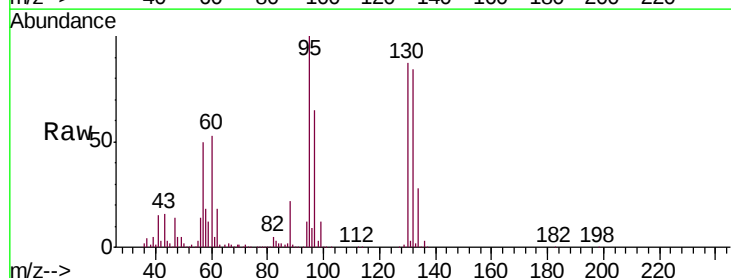
Ion Ratio Lower Upper

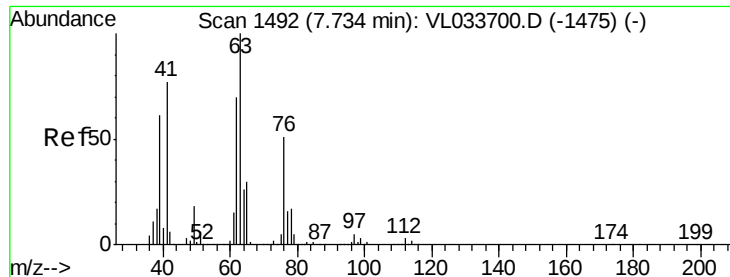
130 100

95 115.4 90.2 135.4

132 96.9 76.4 114.6

97 75.1 59.8 89.6





#39

1,2-Dichloropropane

Concen: 9.580 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

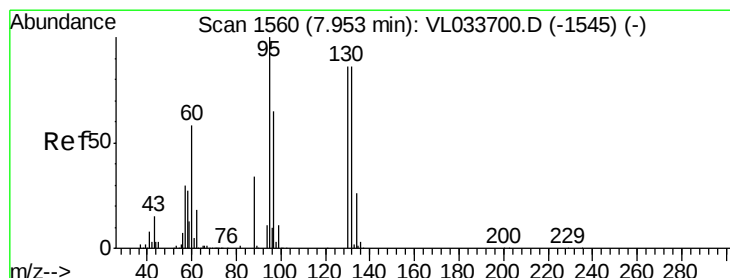
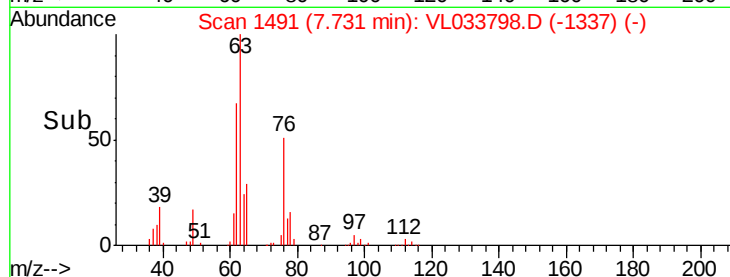
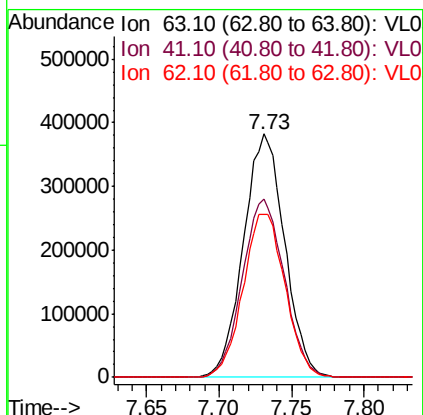
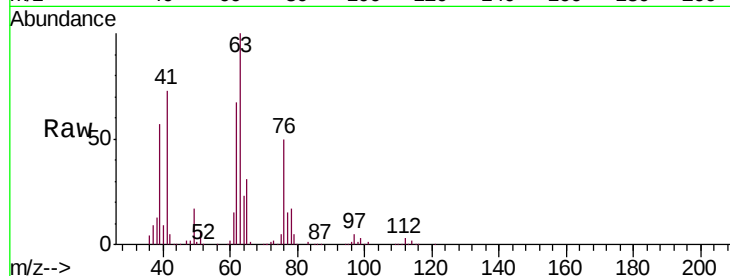
Tgt Ion: 63 Resp: 756599

Ion Ratio Lower Upper

63 100

41 73.4 61.5 92.3

62 67.0 56.2 84.4



#40

1,4-Dioxane

Concen: 8.913 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Tgt Ion: 88 Resp: 294475

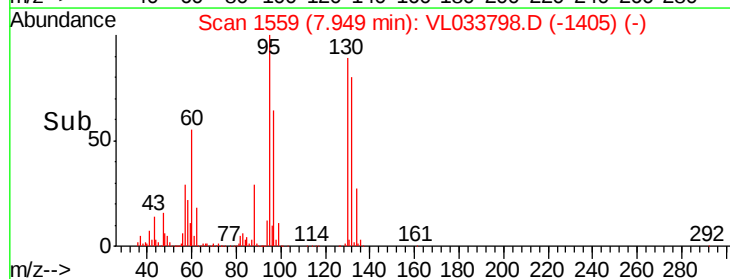
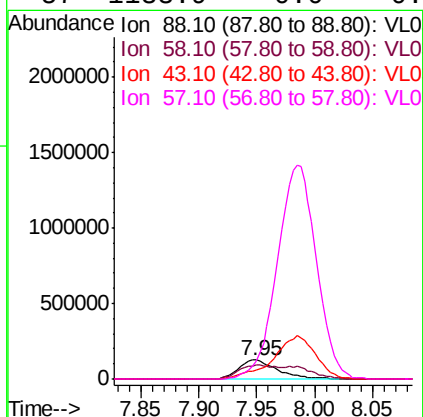
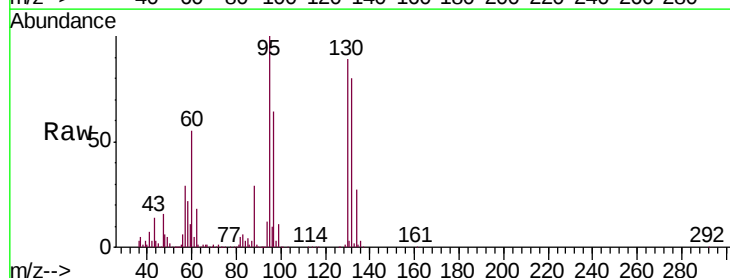
Ion Ratio Lower Upper

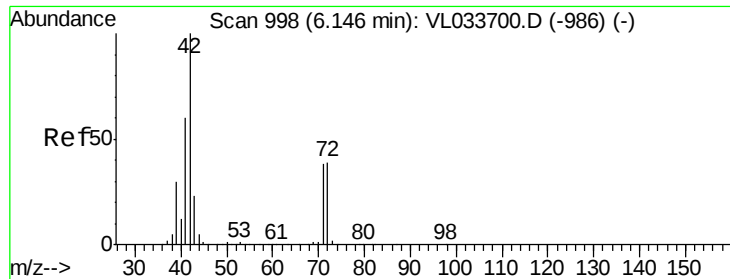
88 100

58 122.7 101.8 152.6

43 245.6 0.0 0.0#

57 1133.9 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.841 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

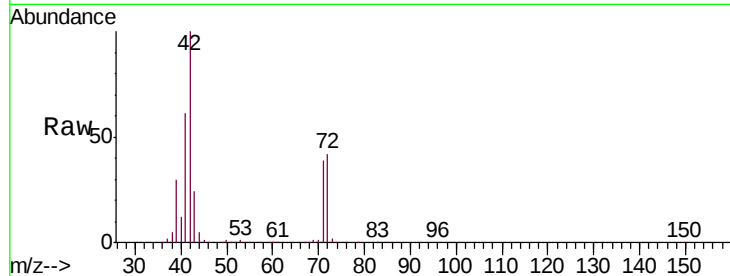
Tgt Ion: 42 Resp: 795911

Ion Ratio Lower Upper

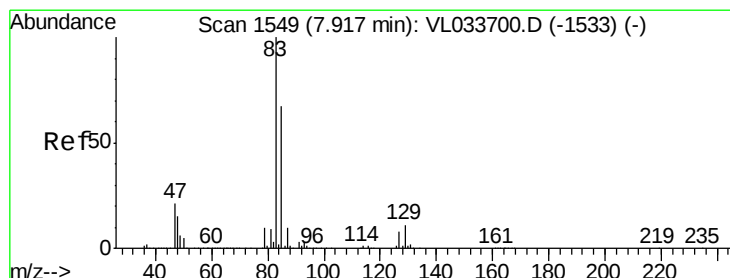
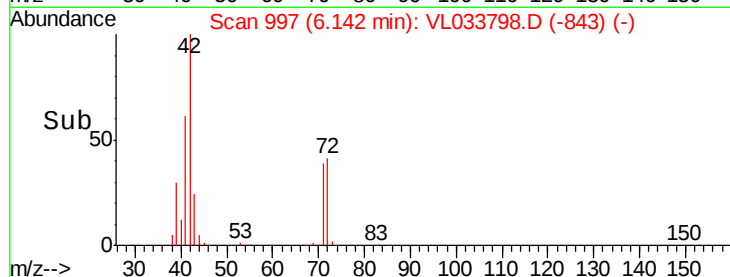
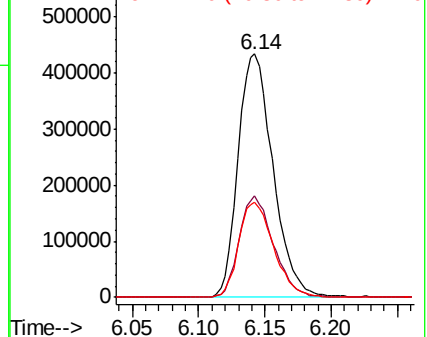
42 100

72 40.9 32.0 48.0

71 39.1 30.4 45.6



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.407 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

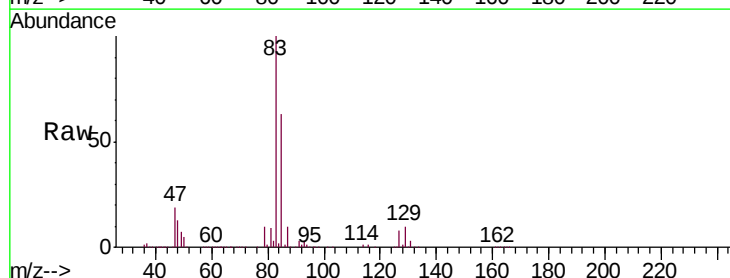
Tgt Ion: 83 Resp: 1759940

Ion Ratio Lower Upper

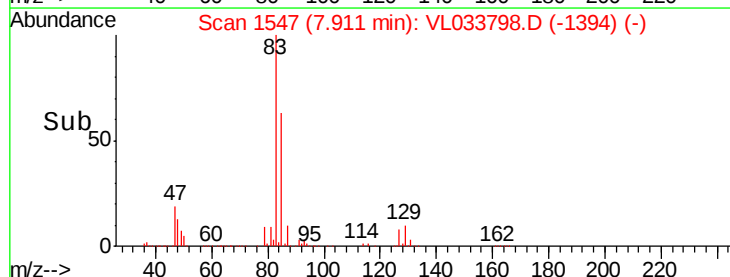
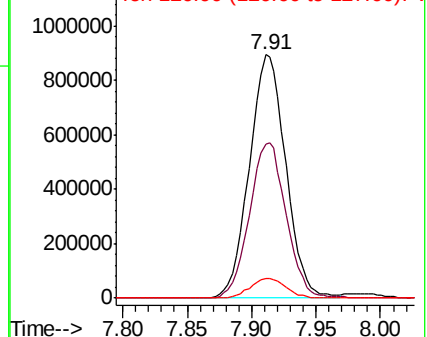
83 100

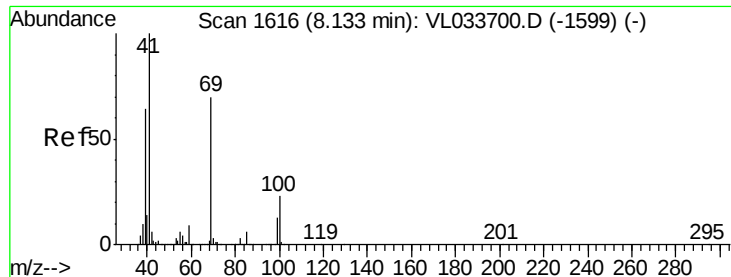
85 63.2 53.3 79.9

127 7.8 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 11.624 ppbv

RT: 8.13 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

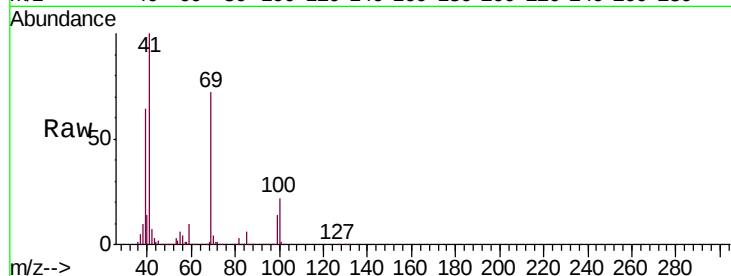
Tgt Ion: 69 Resp: 906249

Ion Ratio Lower Upper

69 100

41 143.1 116.3 174.5

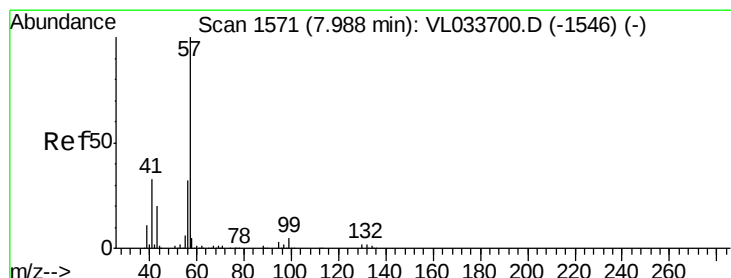
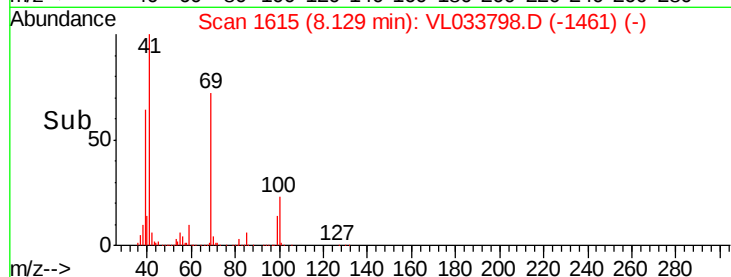
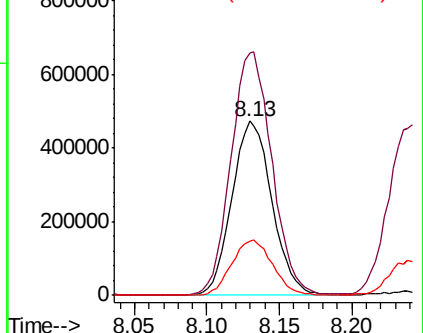
100 32.6 25.3 37.9



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 9.319 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

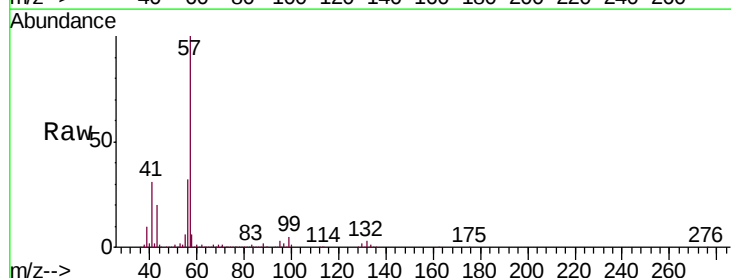
Tgt Ion: 57 Resp: 3336298

Ion Ratio Lower Upper

57 100

41 31.0 25.4 38.0

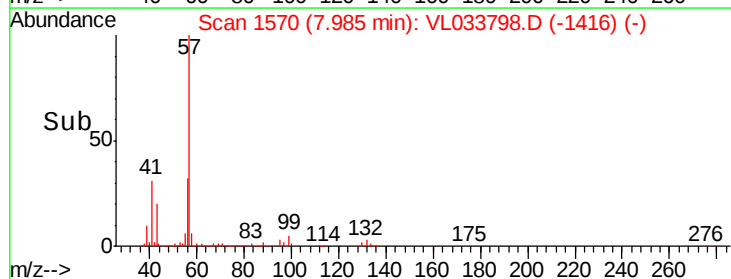
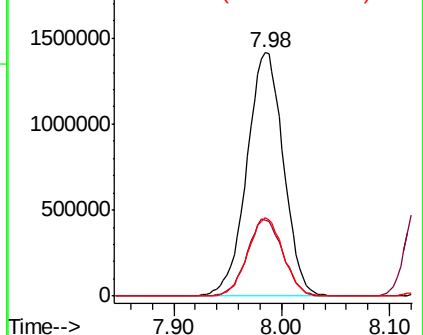
56 31.0 24.7 37.1

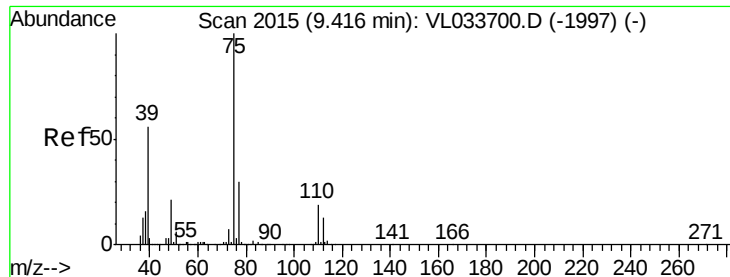


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 11.083 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

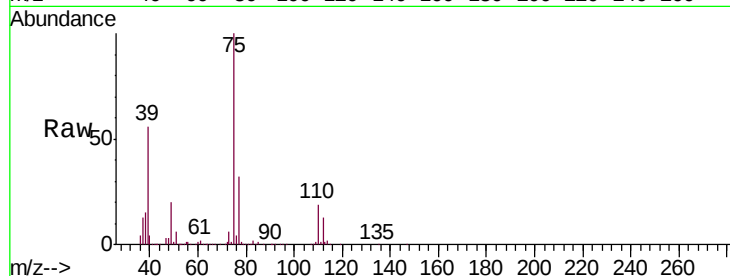
VSTDCCC010

Tgt Ion: 75 Resp: 1095428

Ion Ratio Lower Upper

75 100

77 31.8 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

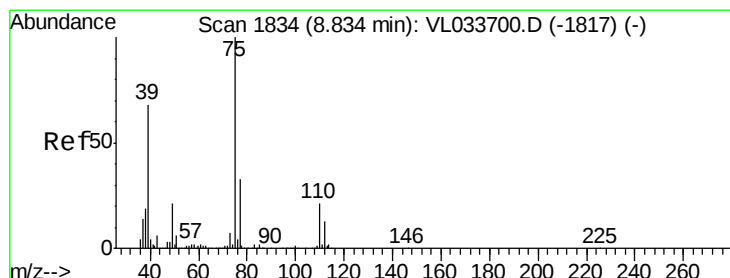
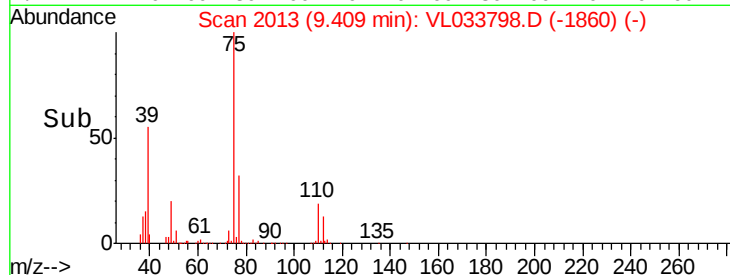
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.711 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

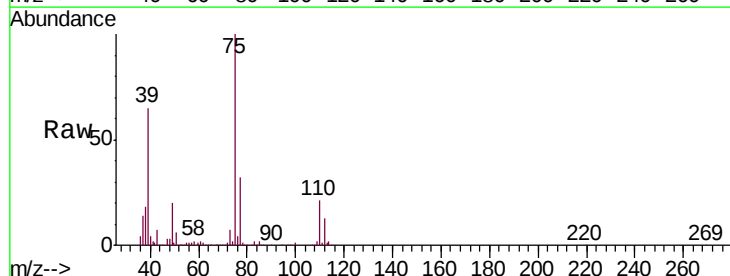
Tgt Ion: 75 Resp: 1239626

Ion Ratio Lower Upper

75 100

39 65.4 54.4 81.6

77 31.9 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

800000

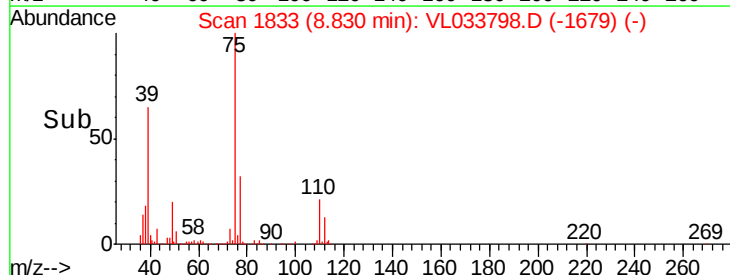
600000

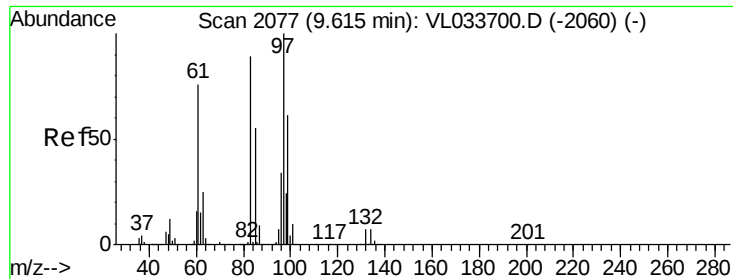
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 9.633 ppbv

RT: 9.61 min Scan# 2075

Delta R.T. -0.01 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 864295

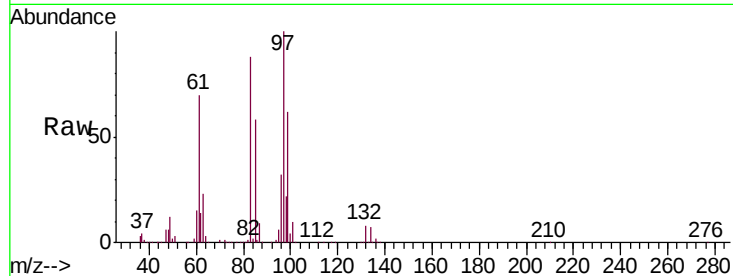
Ion Ratio Lower Upper

97 100

83 87.8 70.8 106.2

85 57.7 43.7 65.5

99 61.5 48.7 73.1

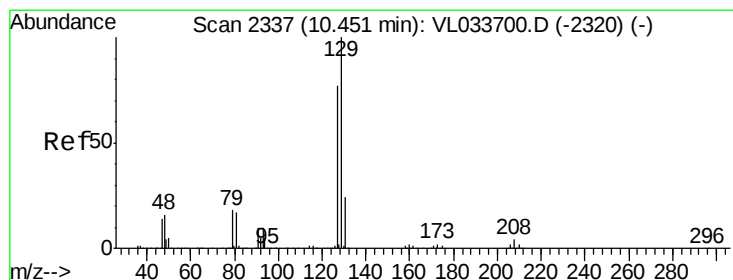
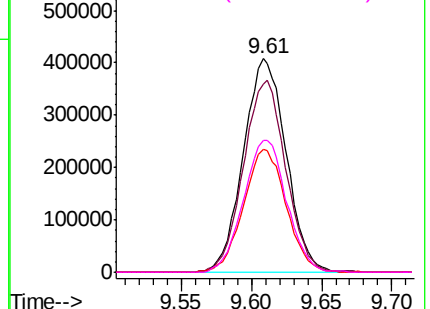
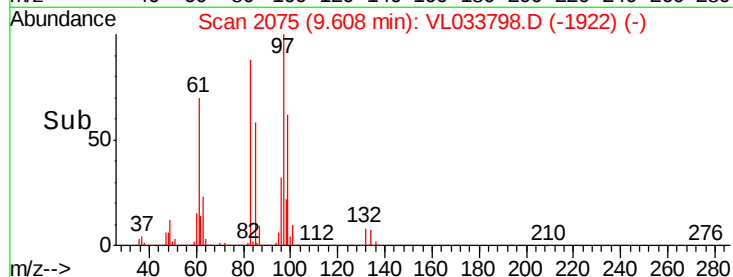


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.996 ppbv

RT: 10.45 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VL033798.D

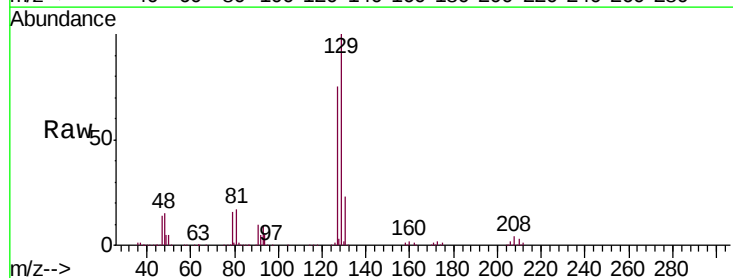
Acq: 28 May 2019 8:53

Tgt Ion: 129 Resp: 1554084

Ion Ratio Lower Upper

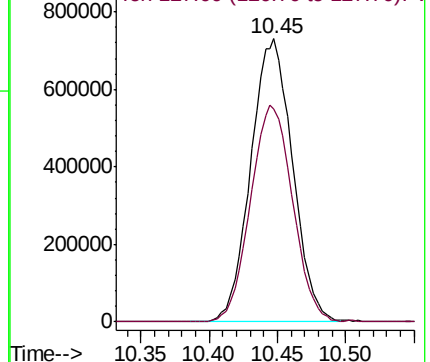
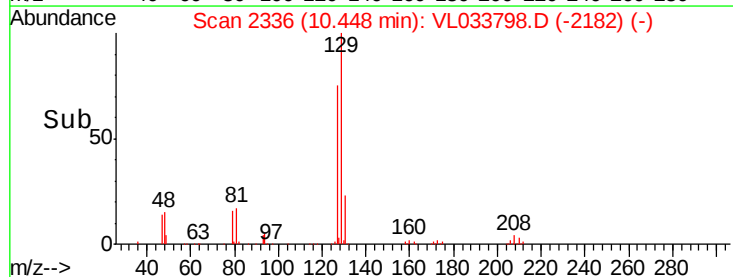
129 100

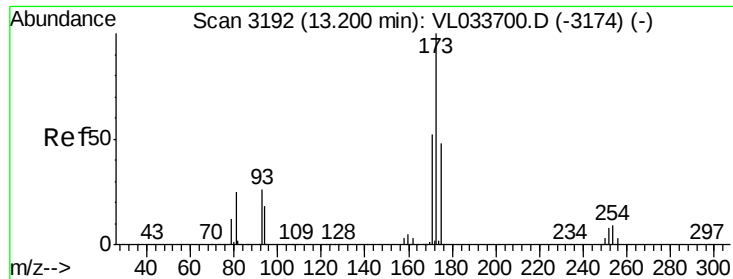
127 77.5 38.6 116.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.676 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

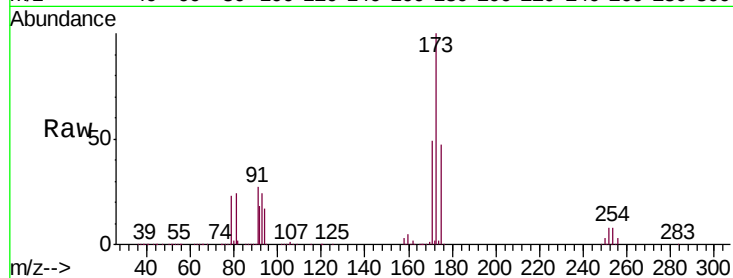
Tgt Ion:173 Resp: 1527307

Ion Ratio Lower Upper

173 100

175 48.7 38.6 58.0

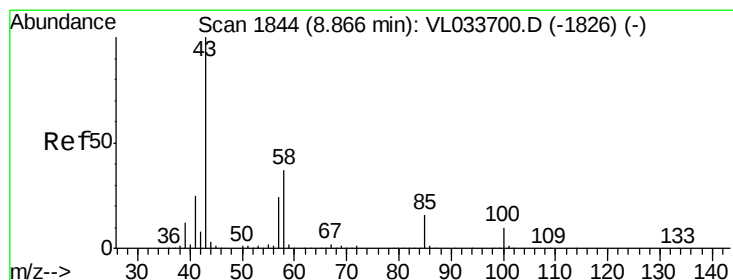
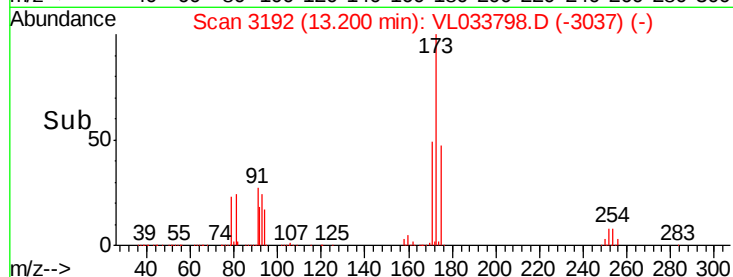
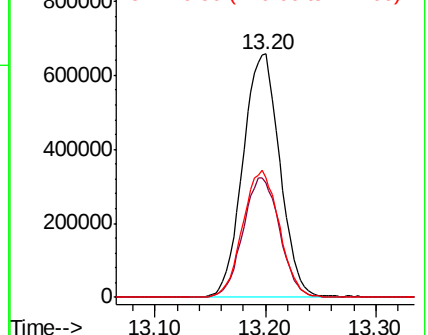
171 51.9 41.5 62.3



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: 9.704 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033798.D

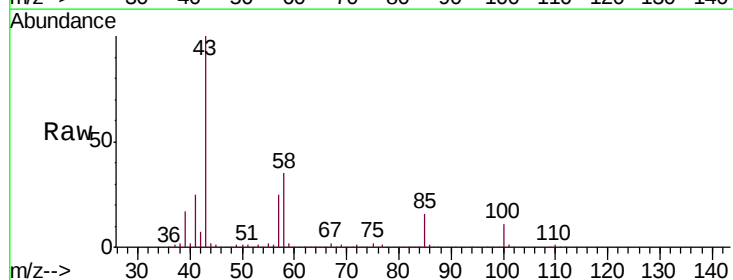
Acq: 28 May 2019 8:53

Tgt Ion: 43 Resp: 2154659

Ion Ratio Lower Upper

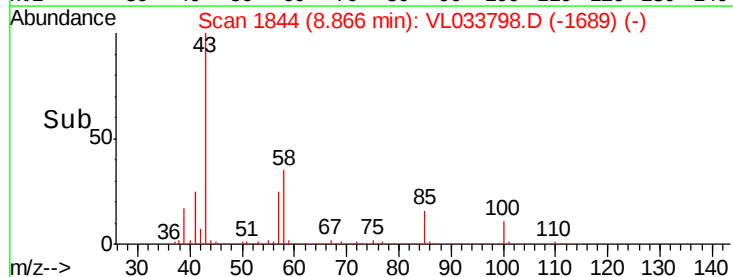
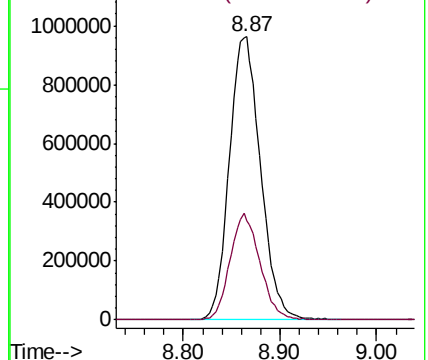
43 100

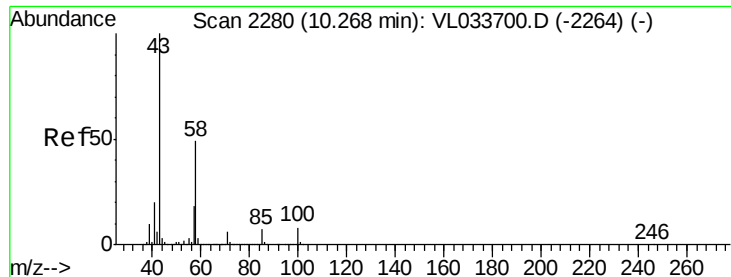
58 36.1 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

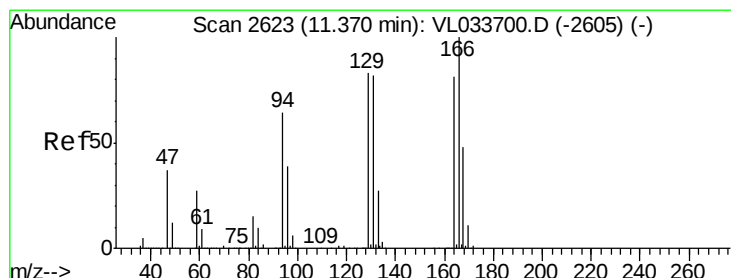
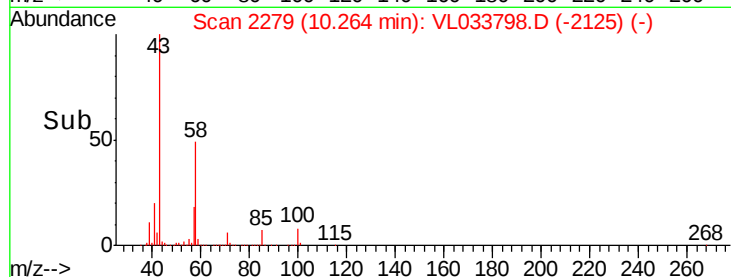
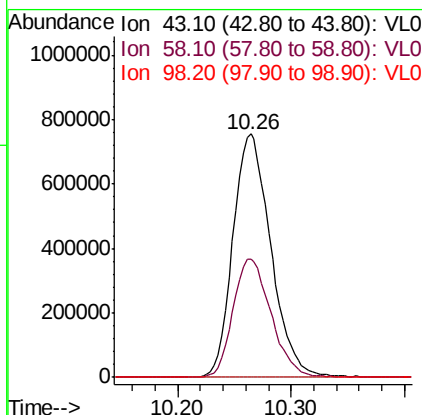
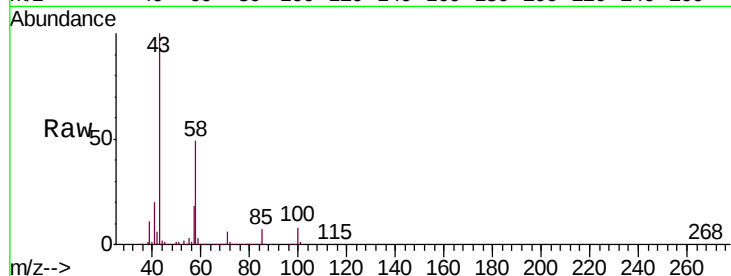




#51
2-Hexanone
Concen: 10.143 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

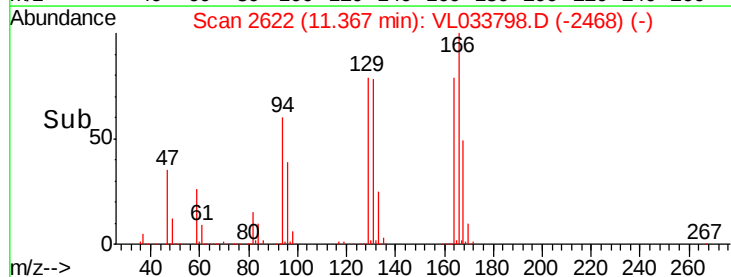
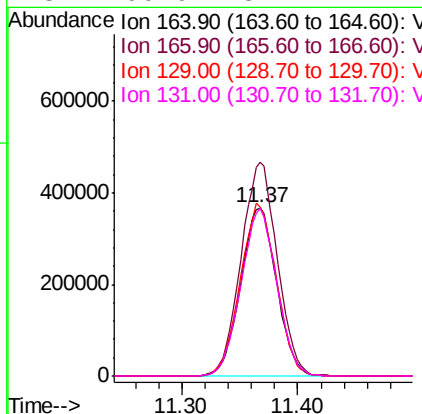
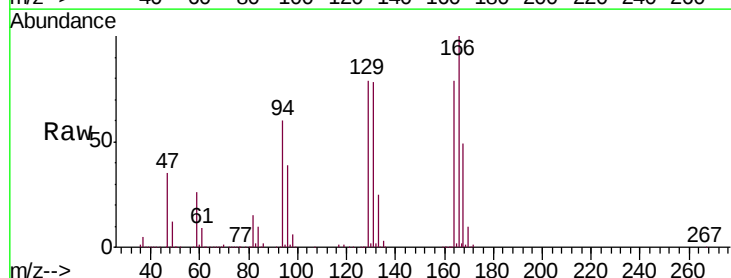
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

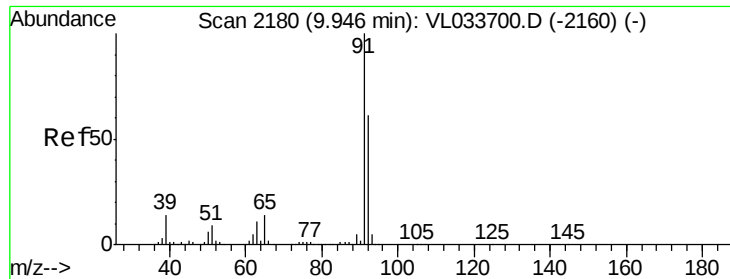
Tgt Ion: 43 Resp: 1757695
Ion Ratio Lower Upper
43 100
58 49.0 38.7 58.1
98 0.2 0.2 0.4#



#52
Tetrachloroethene
Concen: 10.648 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 164 Resp: 792894
Ion Ratio Lower Upper
164 100
166 127.4 98.9 148.3
129 100.8 81.8 122.6
131 99.9 81.1 121.7





#53

Toluene

Concen: 10.698 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

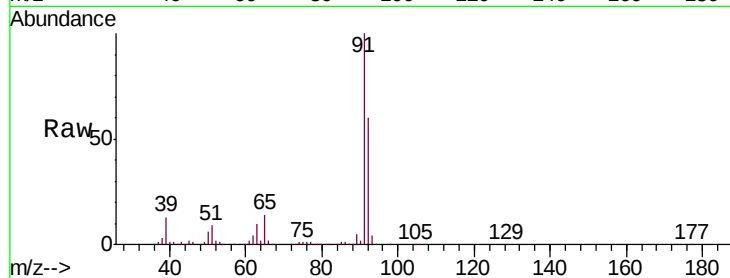
VSTDCCC010

Tgt Ion: 91 Resp: 2444300

Ion Ratio Lower Upper

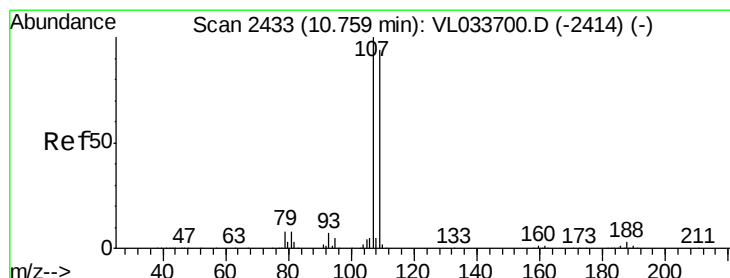
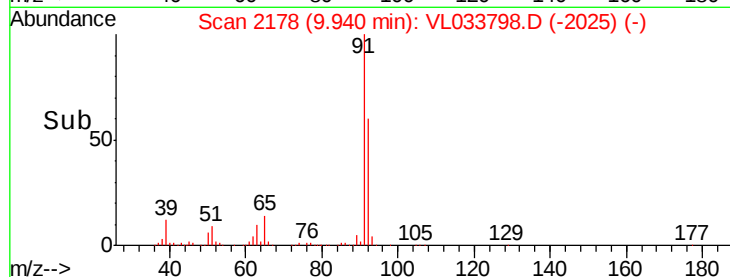
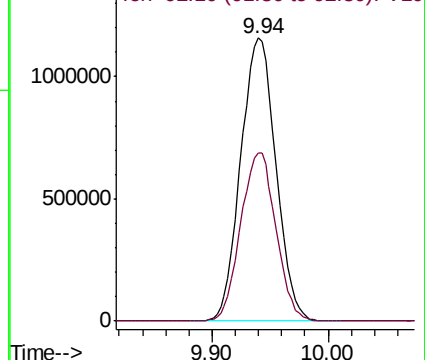
91 100

92 59.6 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.797 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033798.D

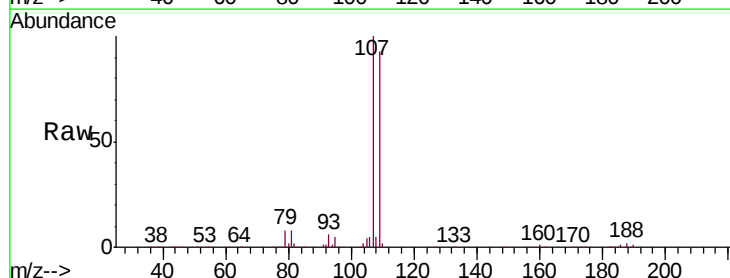
Acq: 28 May 2019 8:53

Tgt Ion: 107 Resp: 1341406

Ion Ratio Lower Upper

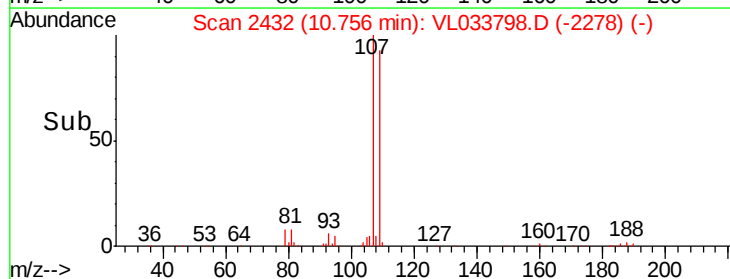
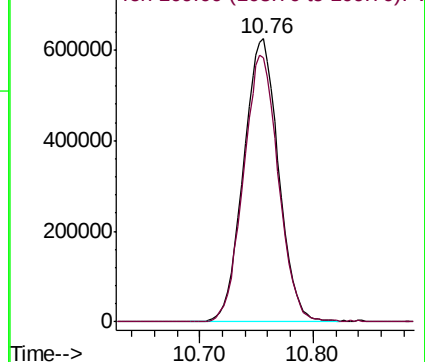
107 100

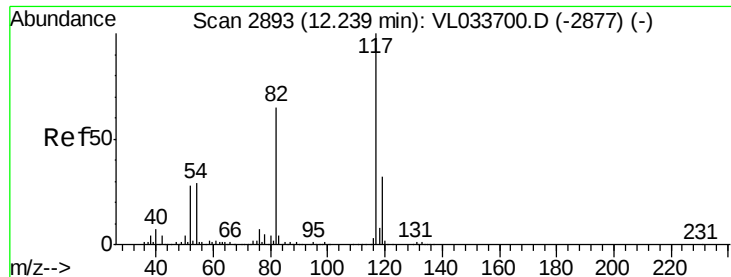
109 93.1 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

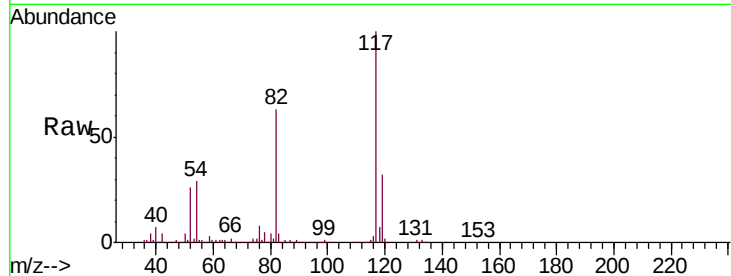




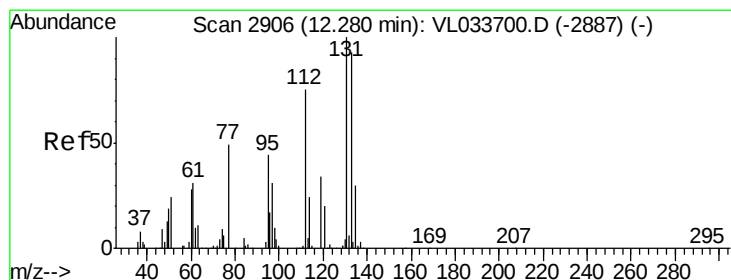
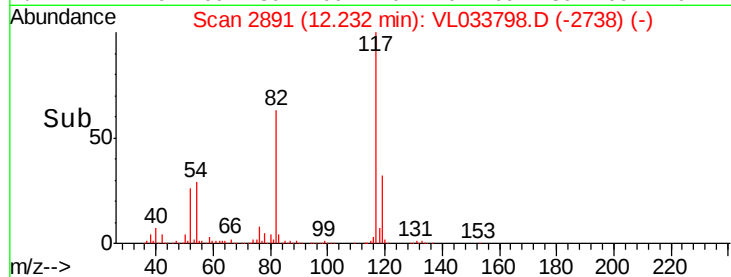
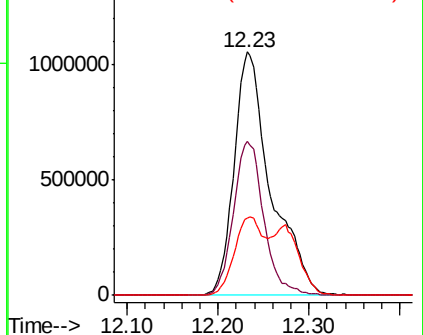
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 2963507
Ion Ratio Lower Upper
117 100
82 52.4 49.4 74.0
119 27.4 24.9 37.3

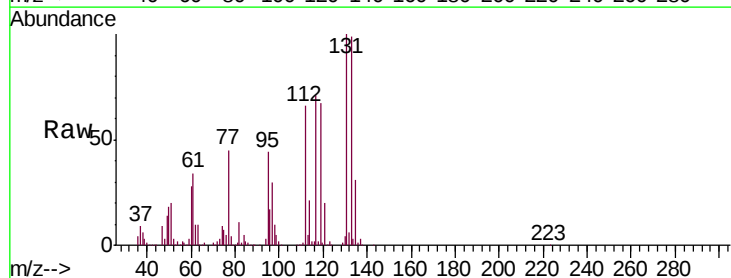


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

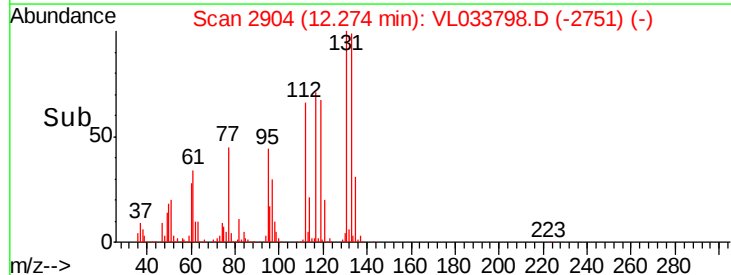
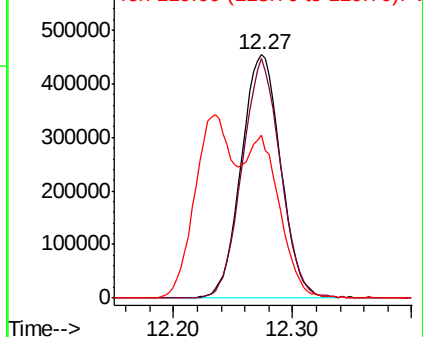


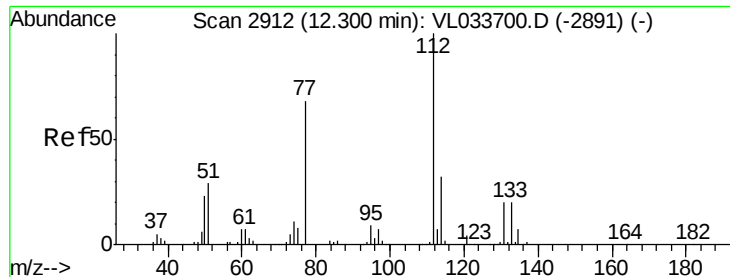
#56
1,1,1,2-Tetrachloroethane
Concen: 7.613 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion:131 Resp: 1044021
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 54.8 49.0 73.4



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

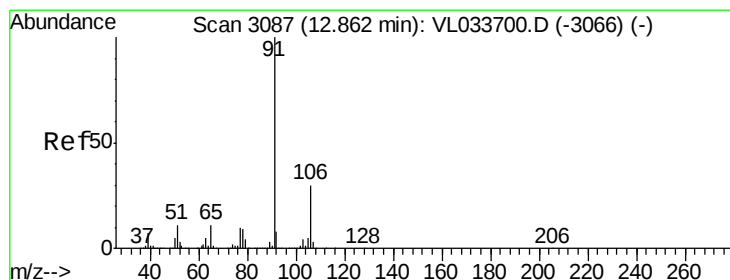
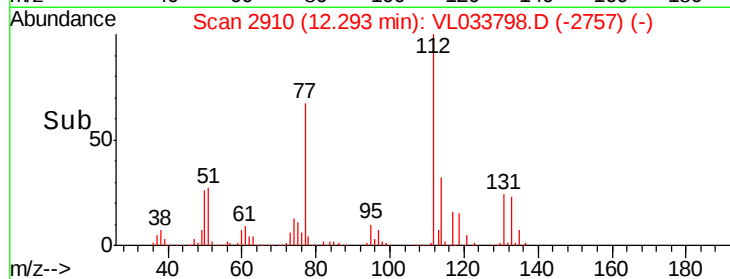
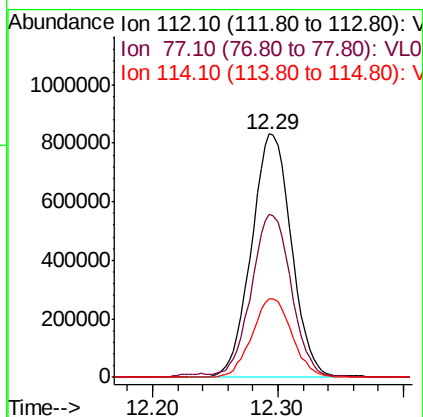
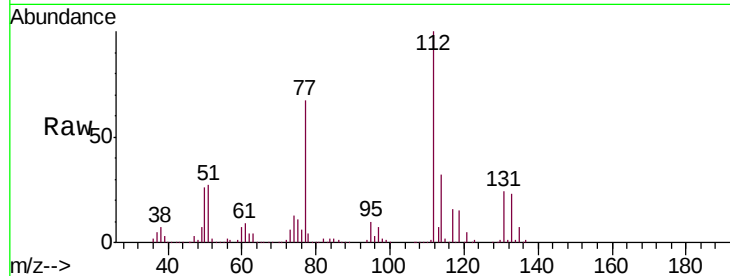




#57
Chlorobenzene
Concen: 7.545 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

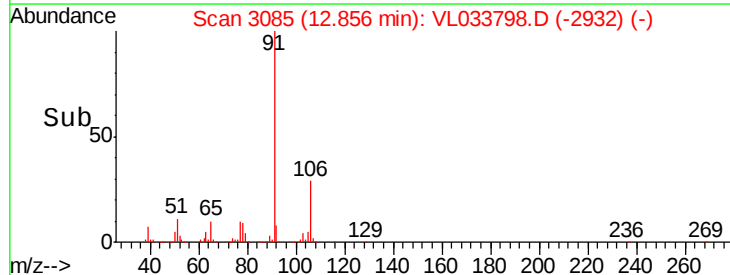
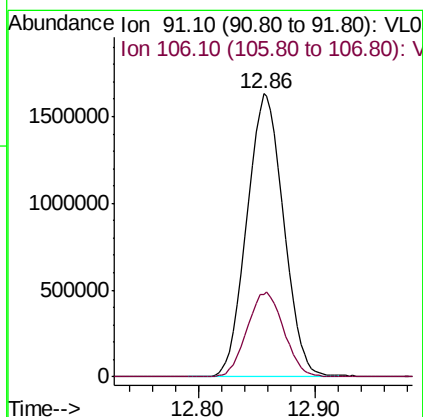
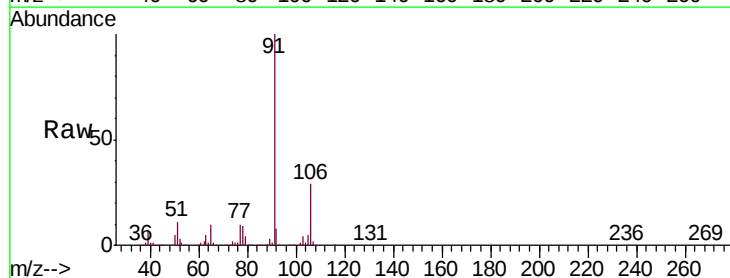
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

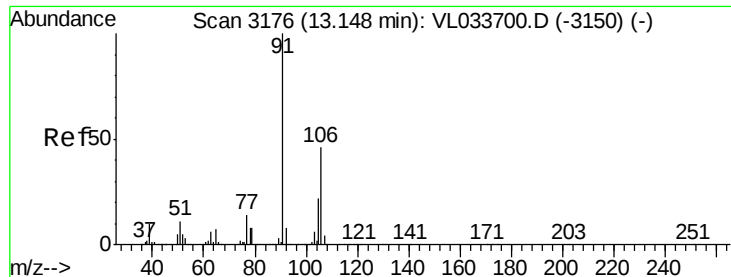
Tgt Ion: 112 Resp: 1840602
Ion Ratio Lower Upper
112 100
77 66.6 55.4 83.0
114 32.2 29.3 35.8



#58
Ethyl Benzene
Concen: 9.173 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 91 Resp: 3599787
Ion Ratio Lower Upper
91 100
106 29.2 23.9 35.9





#59

m/p-Xylene

Concen: 8.299 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

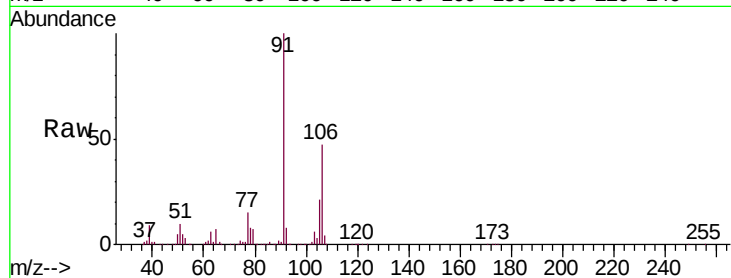
VSTDCCC010

Tgt Ion: 91 Resp: 2847032

Ion Ratio Lower Upper

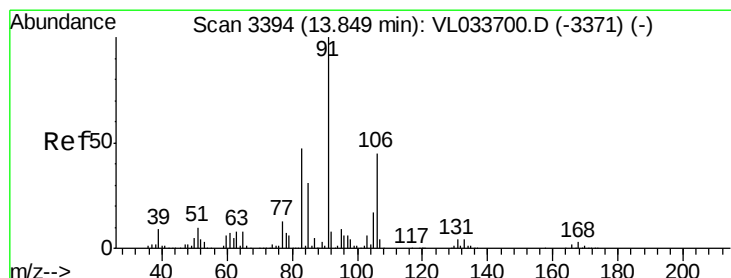
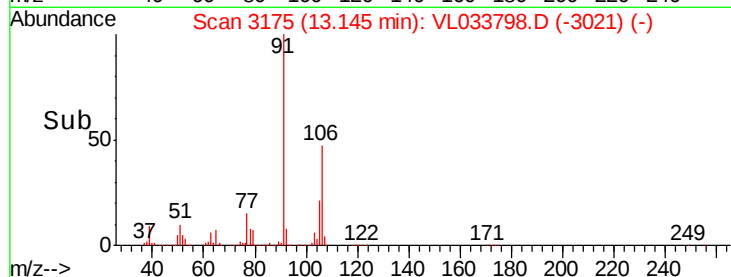
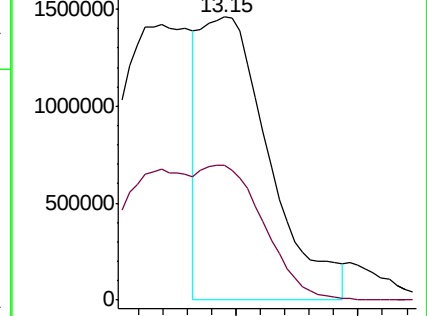
91 100

106 96.0 35.8 53.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 8.503 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL033798.D

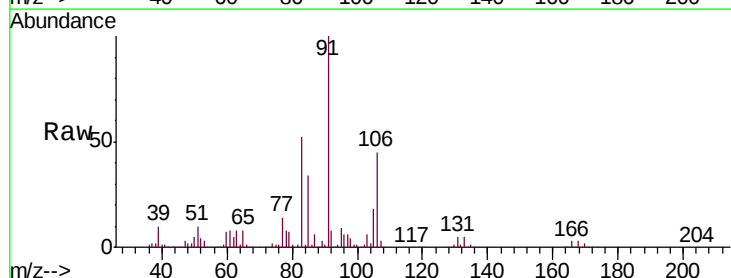
Acq: 28 May 2019 8:53

Tgt Ion: 91 Resp: 2940687

Ion Ratio Lower Upper

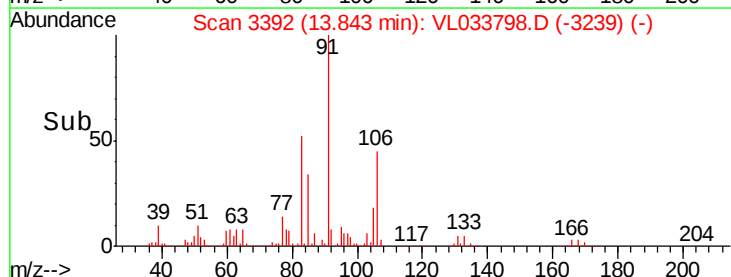
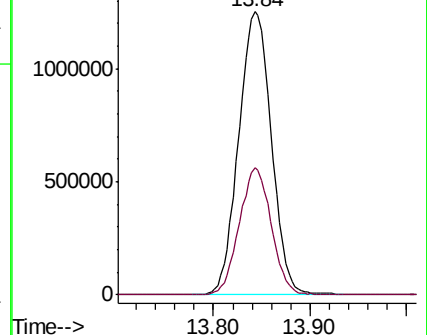
91 100

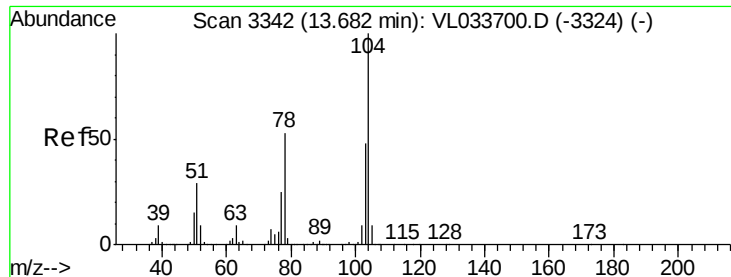
106 44.1 21.6 64.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 9.763 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

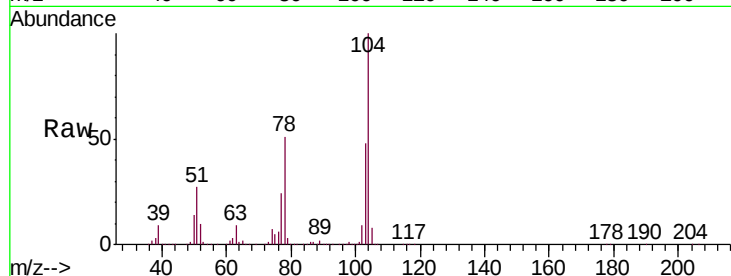
Tgt Ion:104 Resp: 2273083

Ion Ratio Lower Upper

104 100

78 51.7 42.6 64.0

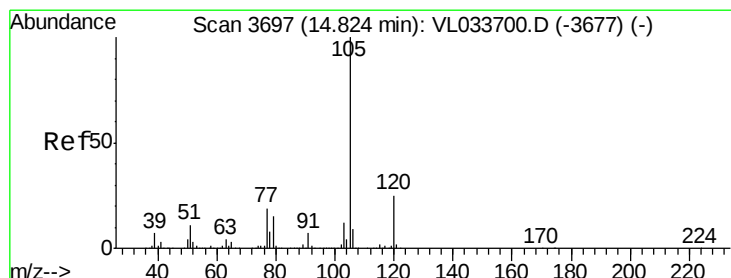
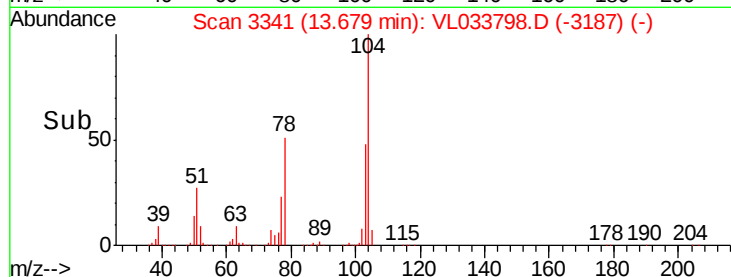
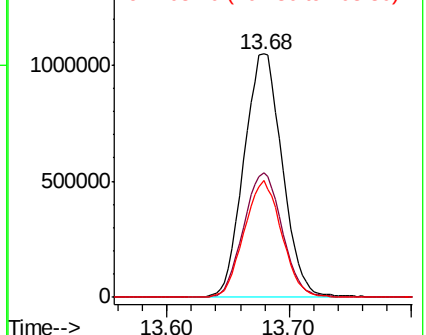
103 47.0 37.8 56.6



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: 8.364 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033798.D

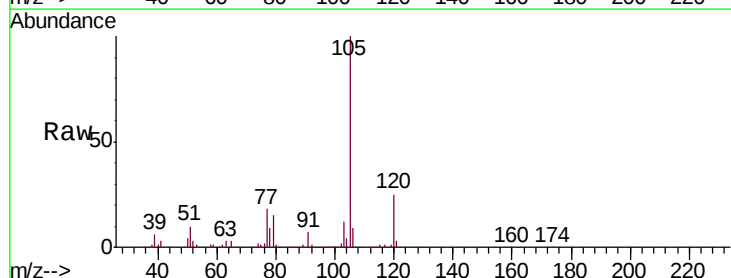
Acq: 28 May 2019 8:53

Tgt Ion:105 Resp: 3895448

Ion Ratio Lower Upper

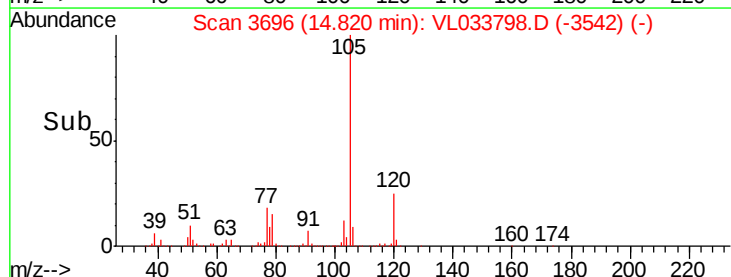
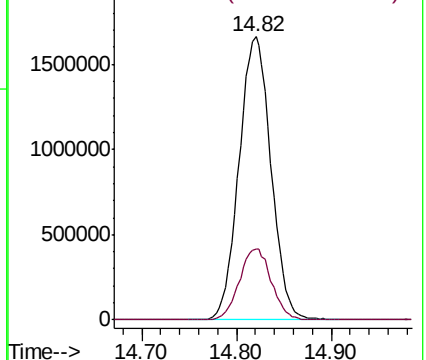
105 100

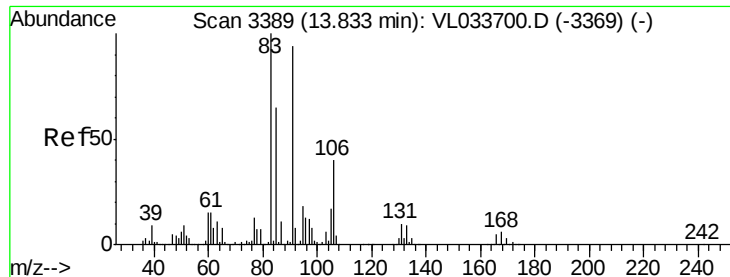
120 25.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

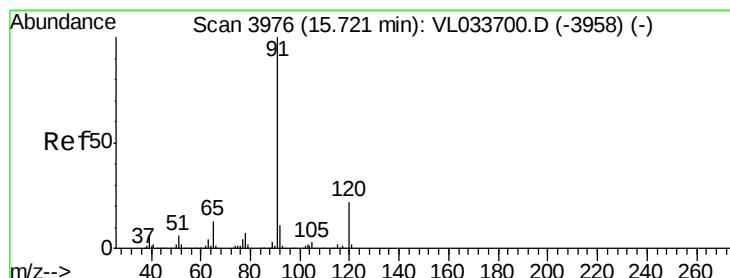
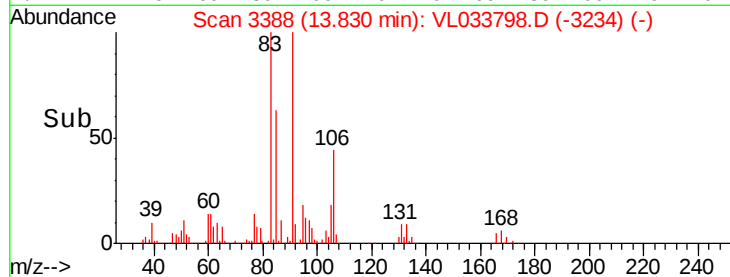
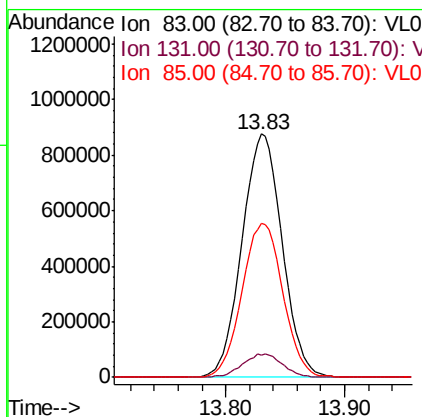
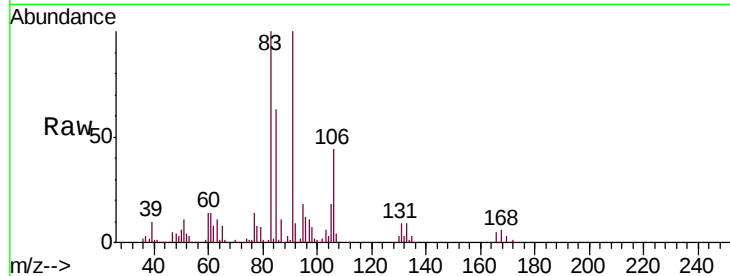




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.157 ppbv
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

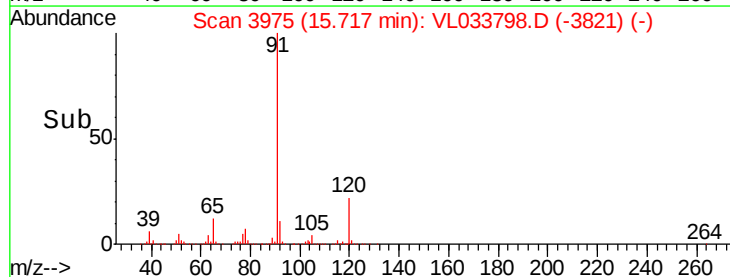
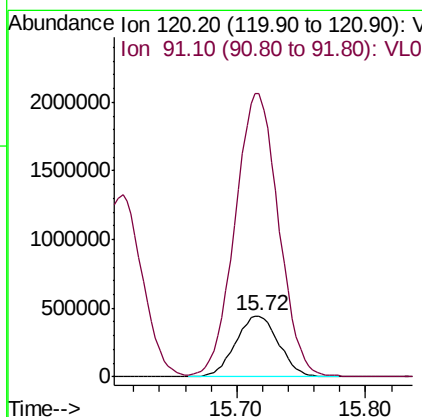
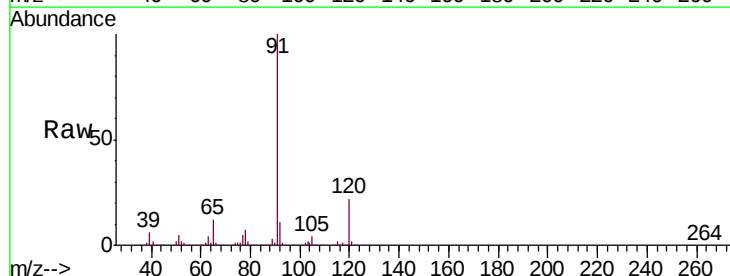
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

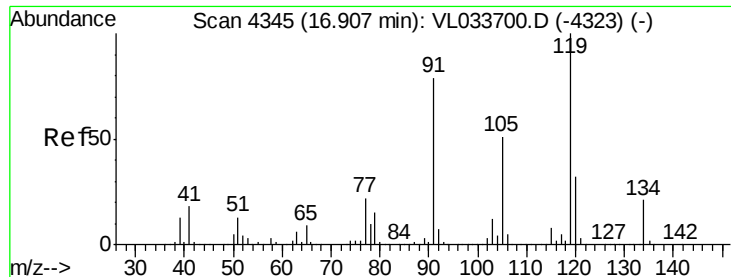
Tgt Ion: 83 Resp: 2051506
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.3
 85 64.4 32.3 96.9



#64
 n-propylbenzene
 Concen: 8.585 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion: 120 Resp: 1034154
 Ion Ratio Lower Upper
 120 100
 91 469.3 379.1 568.7

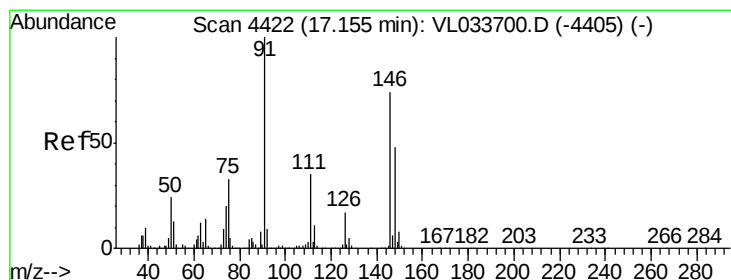
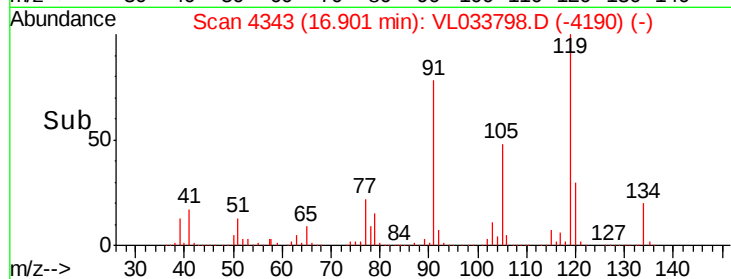
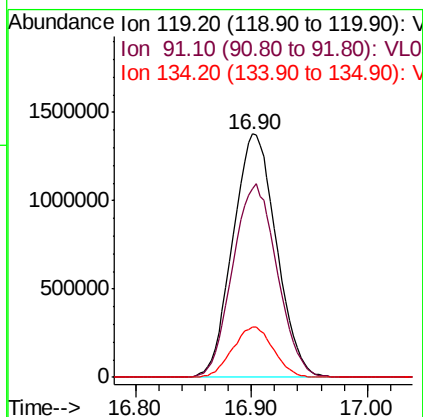
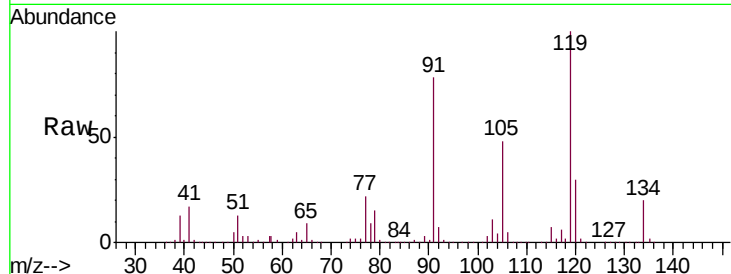




#65
tert-Butylbenzene
Concen: 8.446 ppbv
RT: 16.90 min Scan# 4343
Delta R.T. -0.01 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

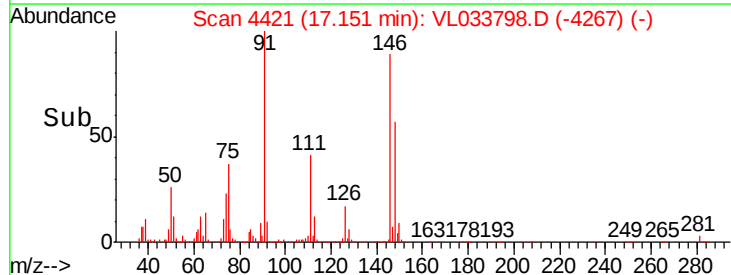
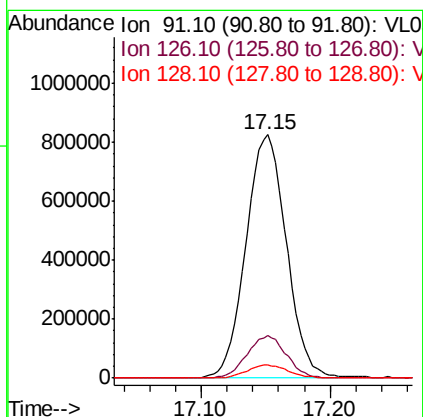
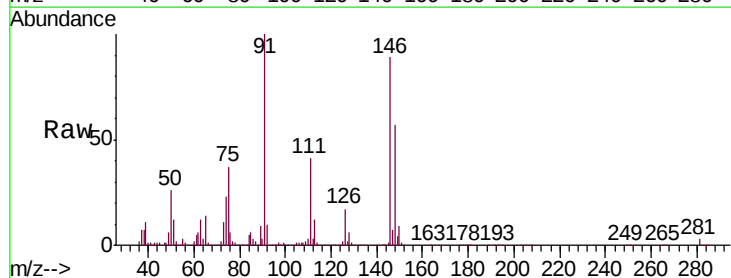
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

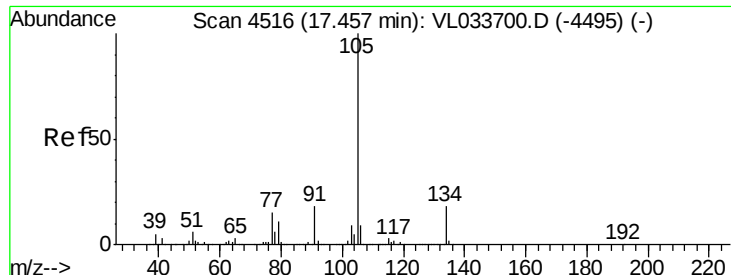
Tgt Ion: 119 Resp: 3591409
Ion Ratio Lower Upper
119 100
91 81.0 65.3 97.9
134 19.5 15.7 23.5



#66
Benzyl Chloride
Concen: 8.895 ppbv
RT: 17.15 min Scan# 4421
Delta R.T. -0.00 min
Lab File: VL033798.D
Acq: 28 May 2019 8:53

Tgt Ion: 91 Resp: 1801530
Ion Ratio Lower Upper
91 100
126 17.2 13.5 20.3
128 5.5 4.3 6.5

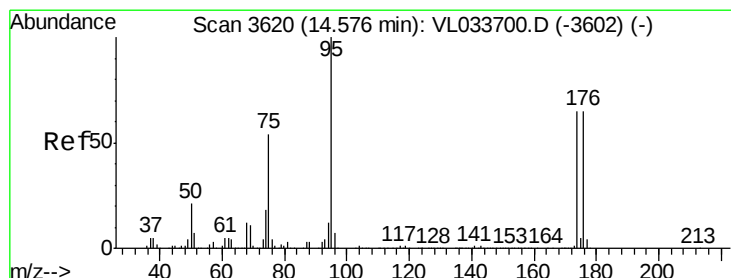
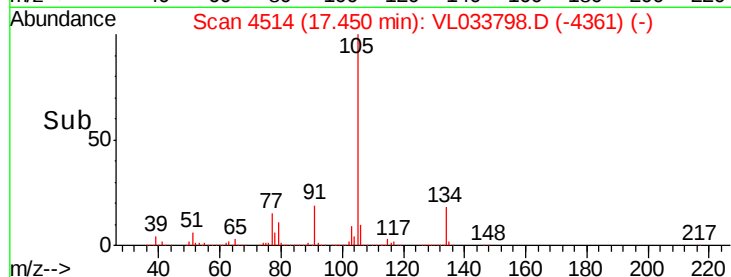
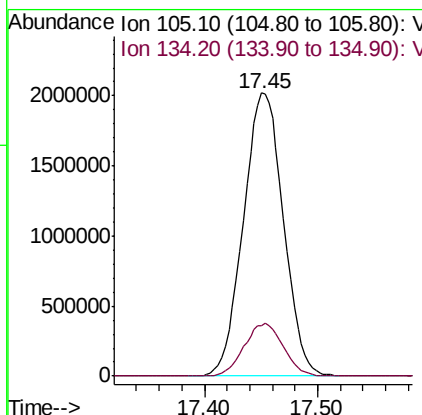
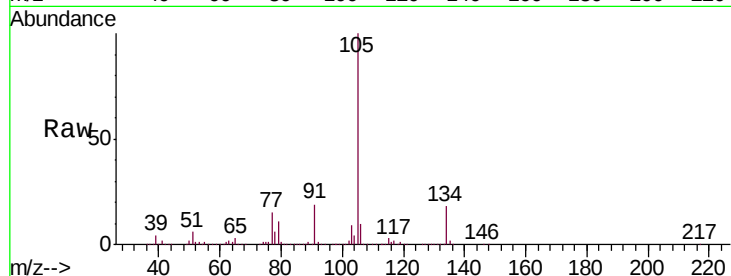




#67
 sec-Butylbenzene
 Concen: 8.357 ppbv
 RT: 17.45 min Scan# 4514
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

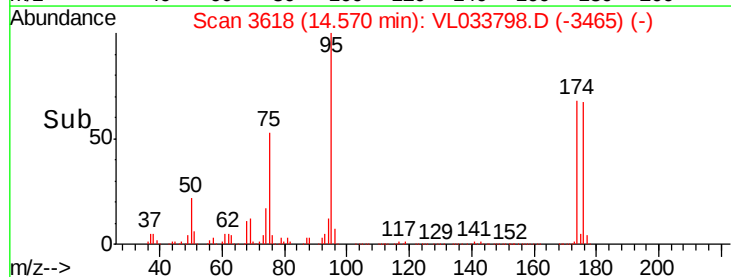
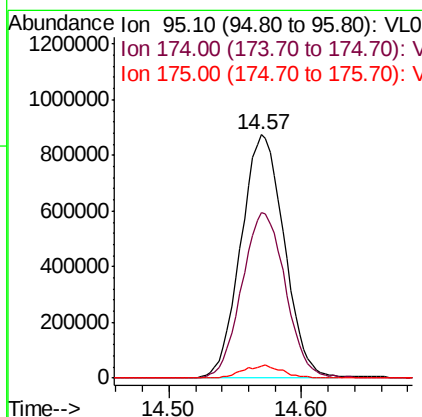
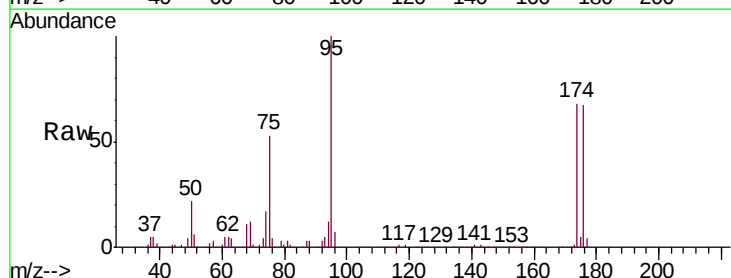
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

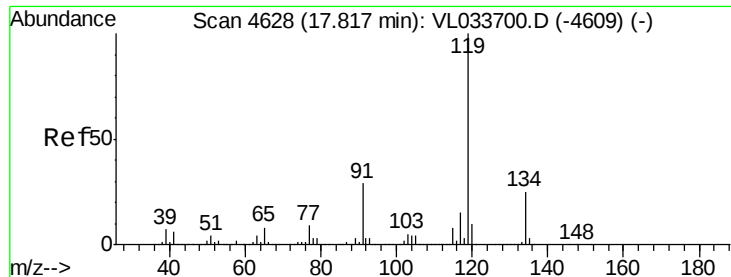
Tgt Ion: 105 Resp: 4973911
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.255 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion: 95 Resp: 1983300
 Ion Ratio Lower Upper
 95 100
 174 68.7 53.9 80.9
 175 4.9 3.8 5.8

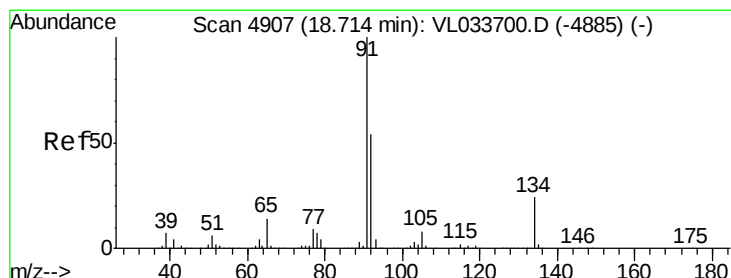
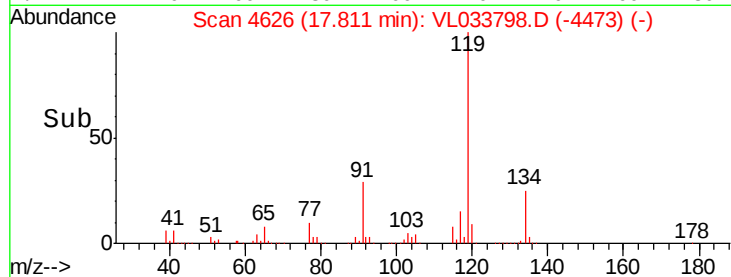
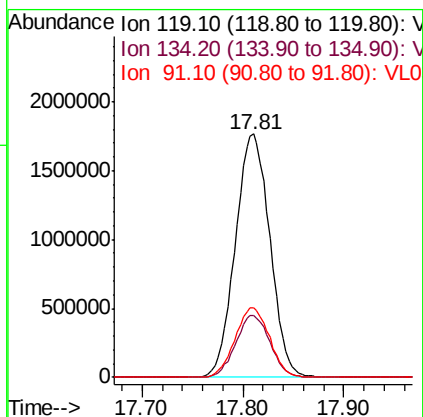
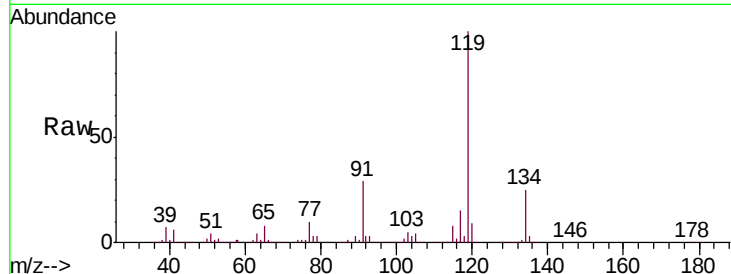




#69
 p-Isopropyltoluene
 Concen: 8.524 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

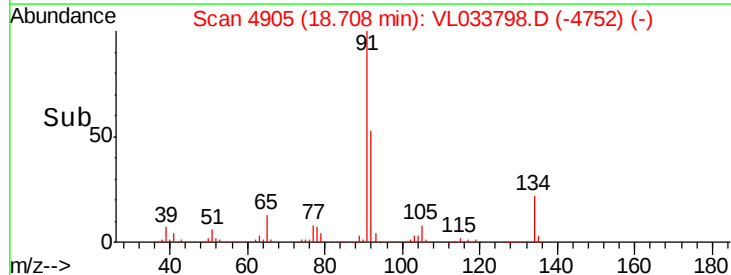
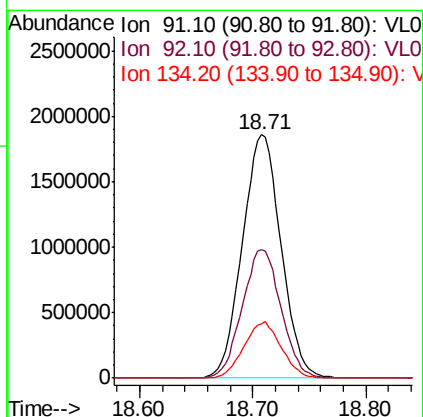
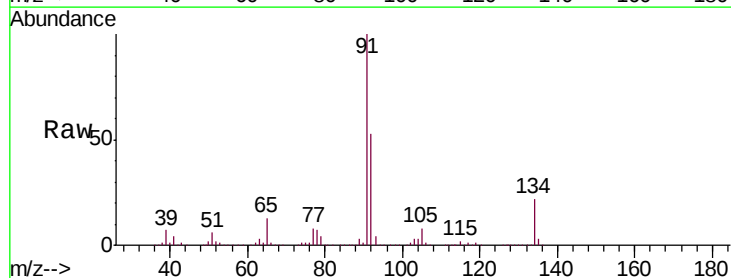
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

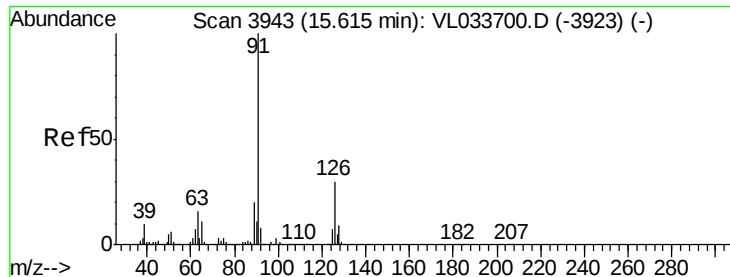
Tgt Ion: 119 Resp: 4193135
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.3 30.5
 91 28.6 23.1 34.7



#70
 n-Butylbenzene
 Concen: 8.364 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion: 91 Resp: 4412031
 Ion Ratio Lower Upper
 91 100
 92 53.1 42.6 63.8
 134 22.3 18.1 27.1

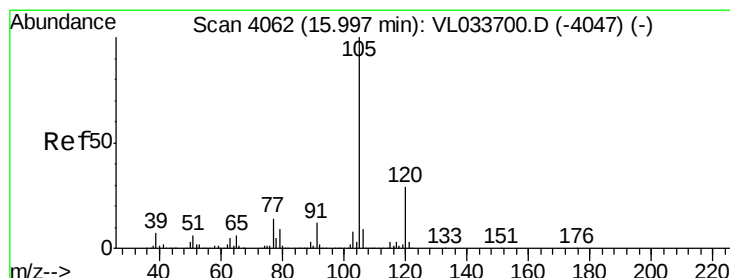
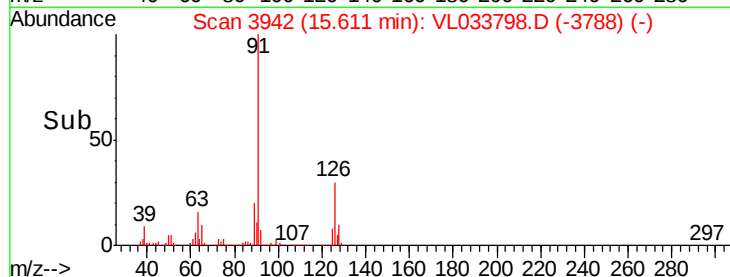
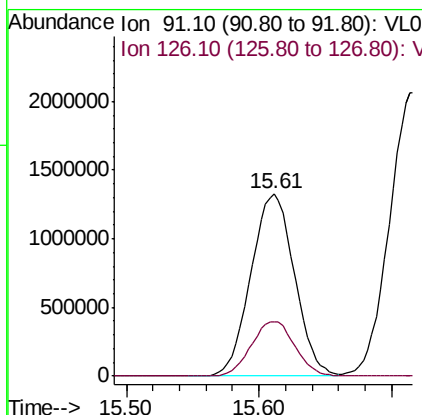
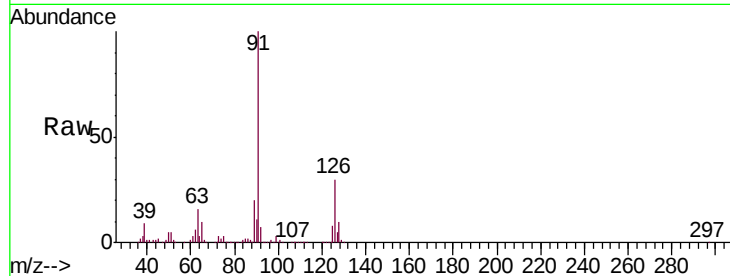




#71
 2-Chlorotoluene
 Concen: 8.772 ppbv
 RT: 15.61 min Scan# 3942
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

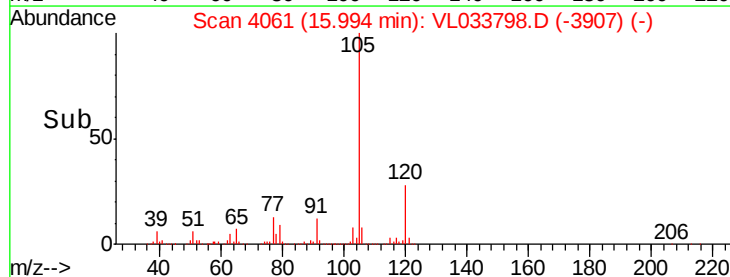
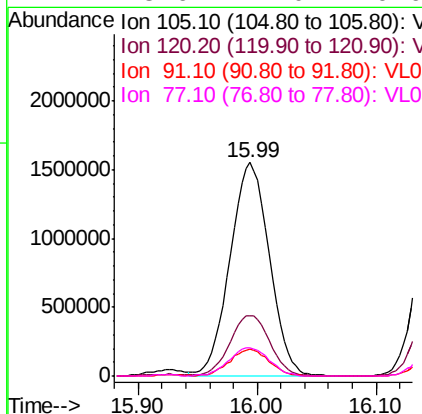
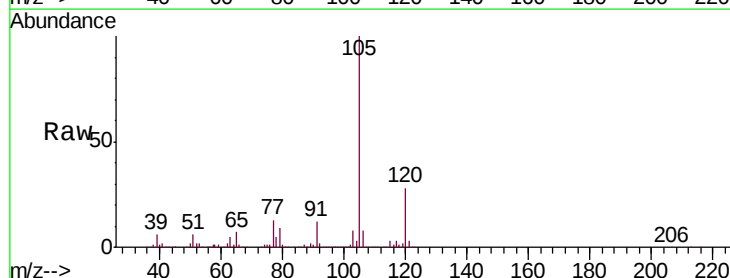
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

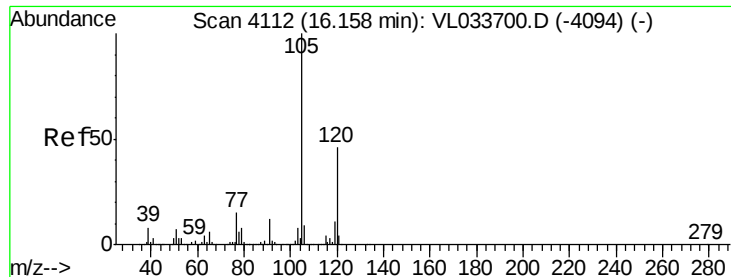
Tgt Ion: 91 Resp: 3031113
 Ion Ratio Lower Upper
 91 100
 126 30.2 12.0 47.8



#72
 4-Ethyltoluene
 Concen: 8.988 ppbv
 RT: 15.99 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion: 105 Resp: 3553704
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.1 34.7
 91 12.6 10.4 15.6
 77 13.6 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 8.592 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

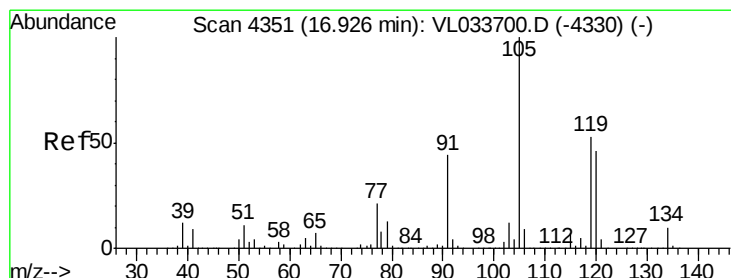
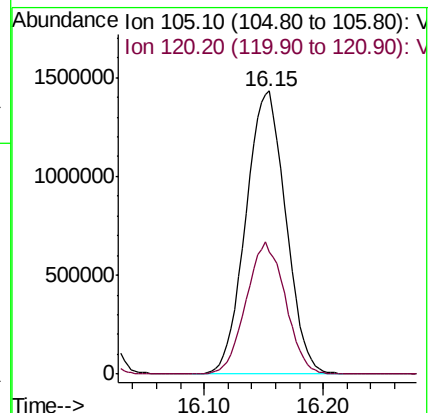
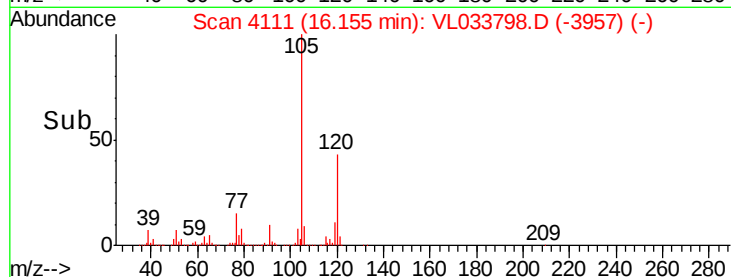
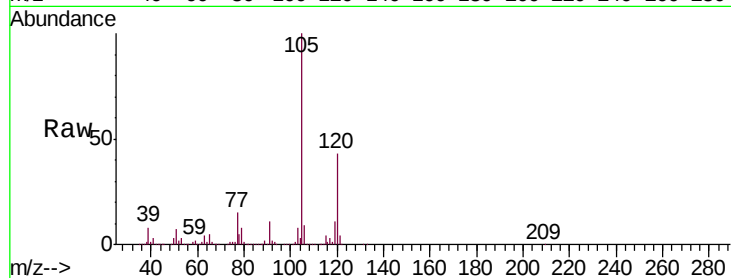
VSTDCCC010

Tgt Ion:105 Resp: 3314706

Ion Ratio Lower Upper

105 100

120 43.2 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 8.240 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Tgt Ion:105 Resp: 3459776

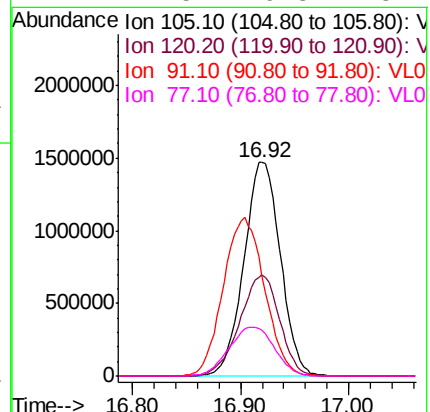
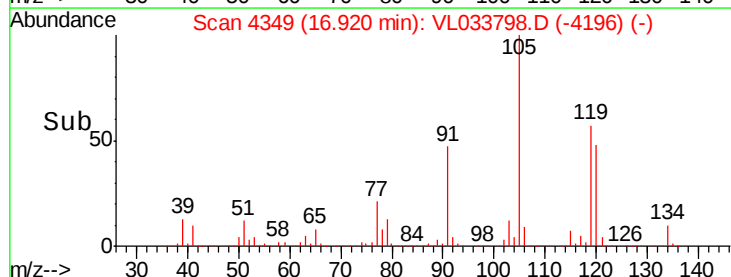
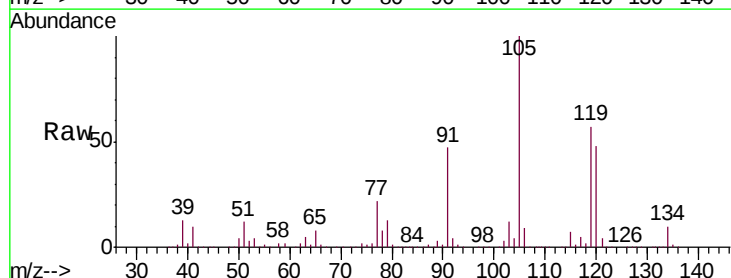
Ion Ratio Lower Upper

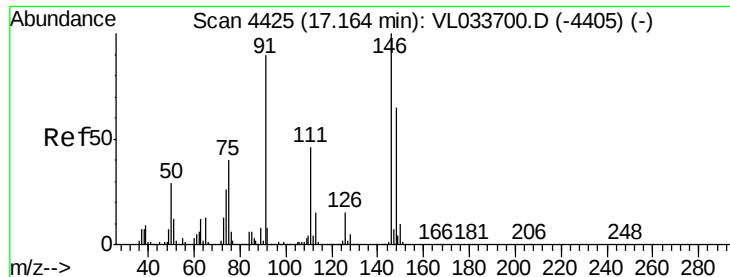
105 100

120 47.6 36.8 55.2

91 47.3 35.4 53.0

77 21.5 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 7.762 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

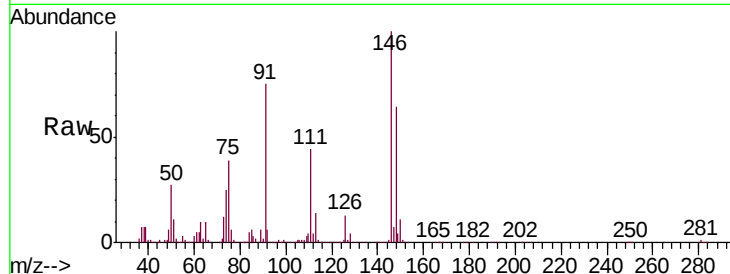
Tgt Ion:146 Resp: 1997051

Ion Ratio Lower Upper

146 100

111 44.7 22.9 68.8

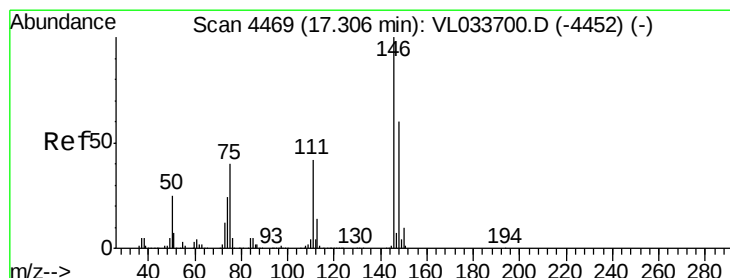
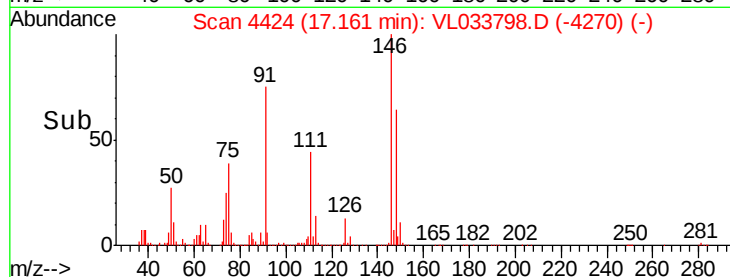
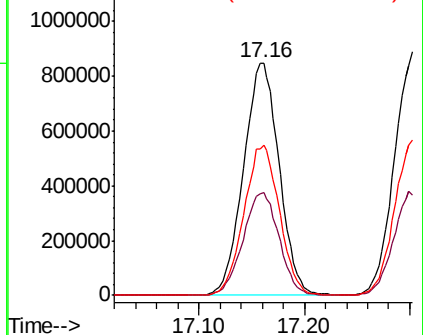
148 64.4 32.0 96.2



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



#76

1,4-Dichlorobenzene

Concen: 8.083 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

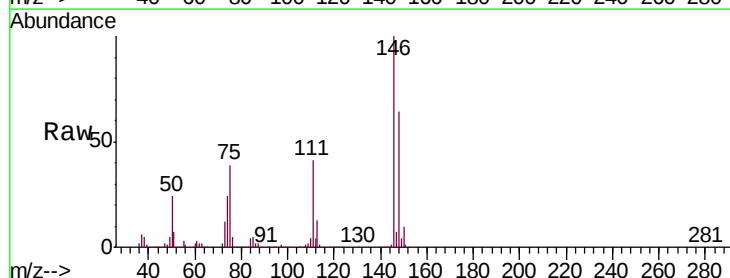
Tgt Ion:146 Resp: 1976625

Ion Ratio Lower Upper

146 100

111 43.4 21.9 65.8

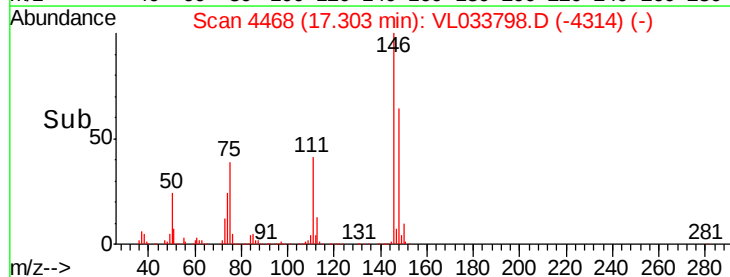
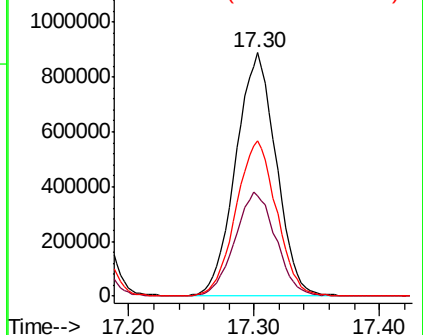
148 64.6 32.1 96.3

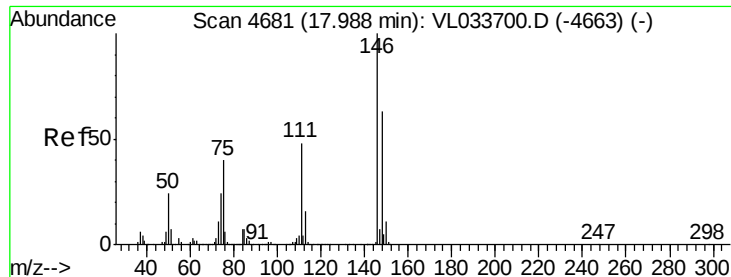


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

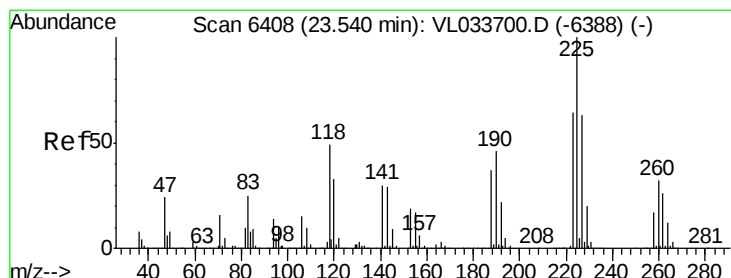
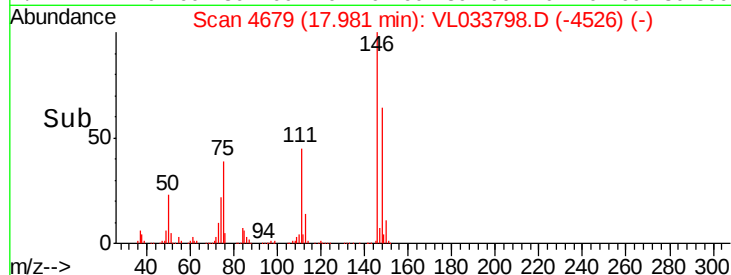
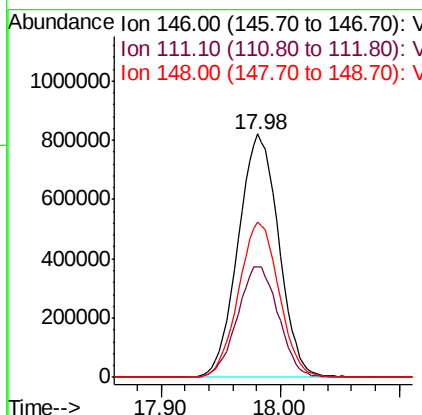
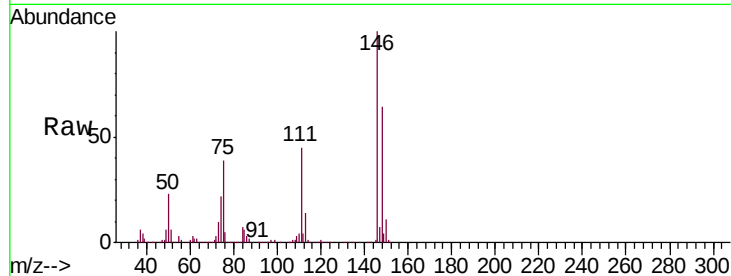




#77
 1,2-Dichlorobenzene
 Concen: 7.993 ppbv
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

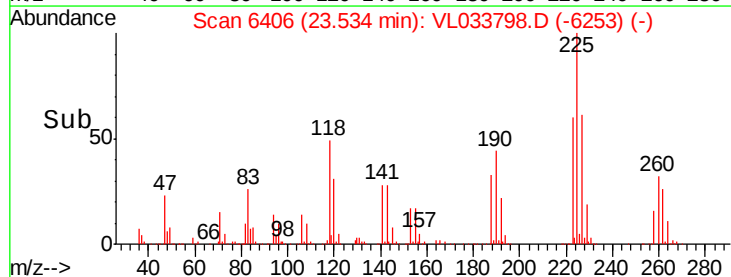
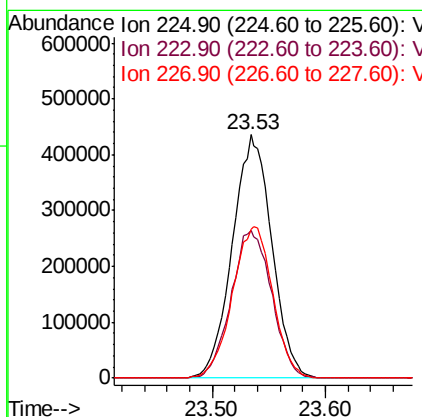
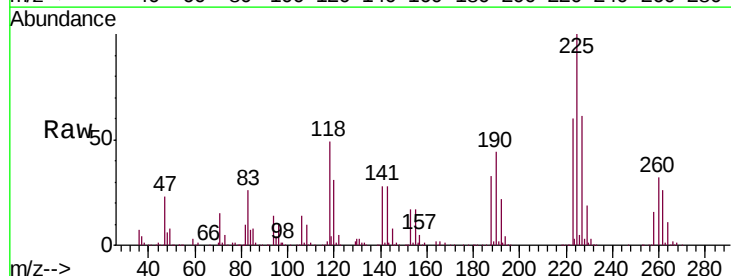
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

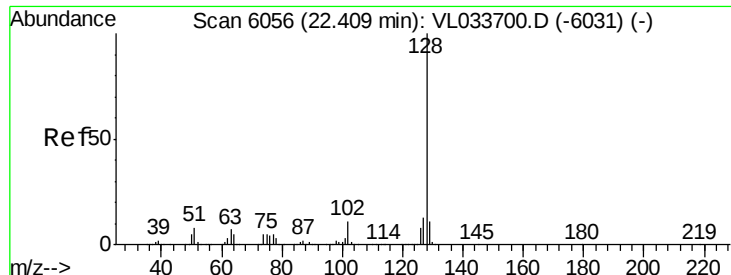
Tgt Ion:146 Resp: 1932340
 Ion Ratio Lower Upper
 146 100
 111 46.3 23.5 70.5
 148 63.9 32.1 96.3



#78
 Hexachloro-1,3-Butadiene
 Concen: 5.765 ppbv
 RT: 23.53 min Scan# 6406
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Tgt Ion:225 Resp: 1053752
 Ion Ratio Lower Upper
 225 100
 223 62.6 50.2 75.4
 227 63.6 50.7 76.1





#79

Naphthalene

Concen: 6.773 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

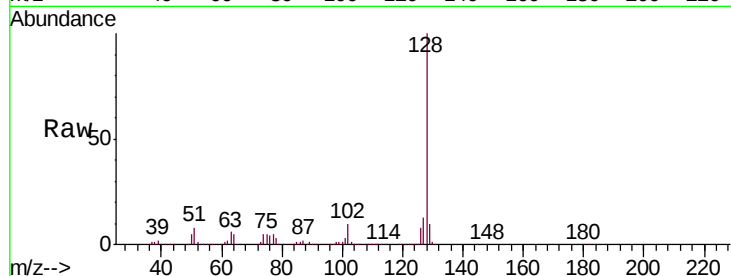
Tgt Ion:128 Resp: 2641436

Ion Ratio Lower Upper

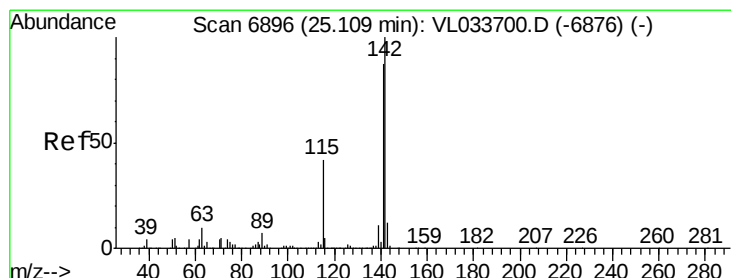
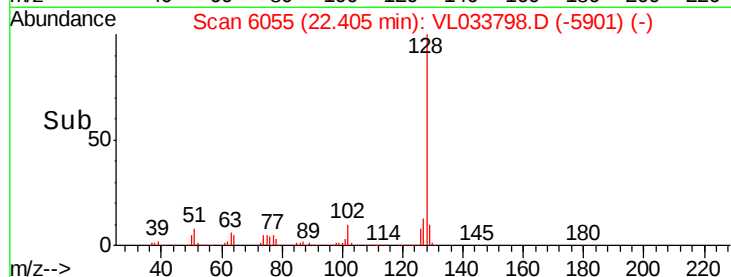
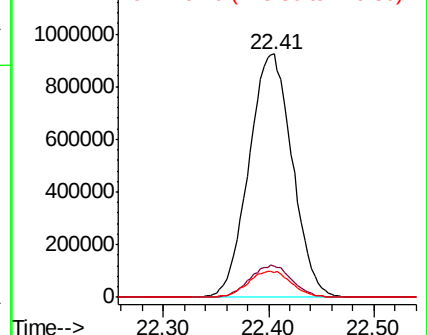
128 100

127 13.0 10.6 16.0

129 10.2 8.9 13.3



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: 6.860 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033798.D

Acq: 28 May 2019 8:53

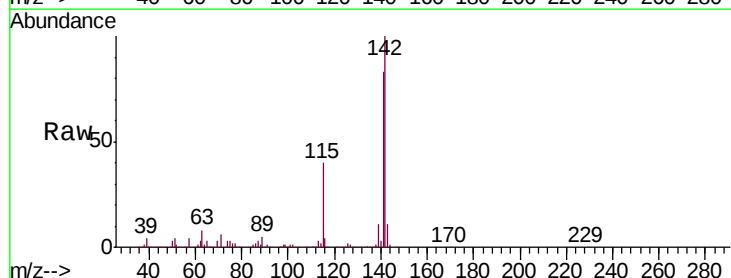
Tgt Ion:142 Resp: 1016448

Ion Ratio Lower Upper

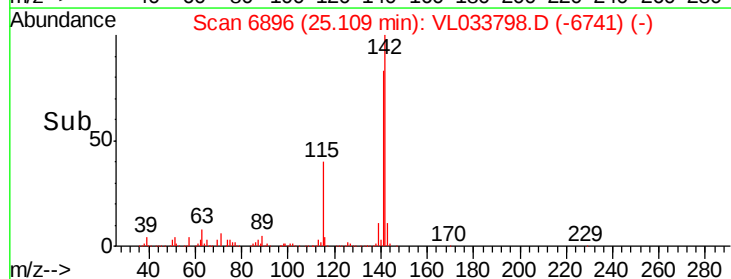
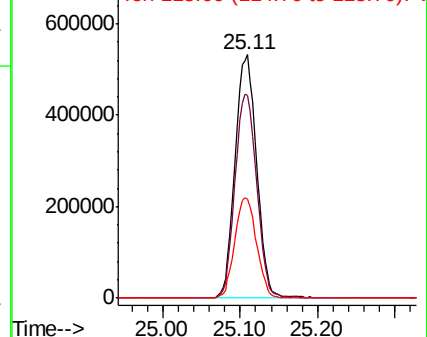
142 100

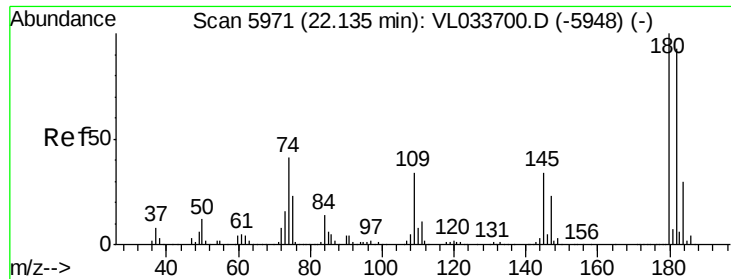
141 84.5 67.2 100.8

115 41.7 34.1 51.1



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

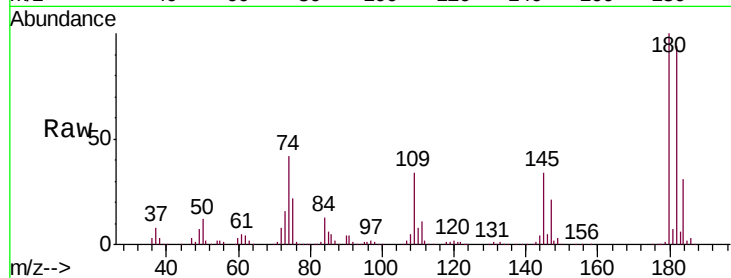




#81
 1,2,4-Trichlorobenzene
 Concen: 6.664 ppbv
 RT: 22.13 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL033798.D
 Acq: 28 May 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:180 Resp: 1521849
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.1 114.1
 184 30.8 24.6 37.0



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

