

Data File : VL033809.D
Acq On : 28 May 2019 17:42
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleID :
VSTDCCC010EC

Quant Time: May 29 04:39:23 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	945433	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2487769	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	3049118	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1903218	7.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	77.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1473595	7.396	ppbv	99
3) Chlorodifluoromethane	3.01	51	1075358	9.930	ppbv	98
4) Chloromethane	3.17	50	667815	10.782	ppbv	100
5) Vinyl Chloride	3.29	62	652083	10.335	ppbv	97
6) Bromomethane	3.51	94	408741	10.617	ppbv	95
7) Chloroethane	3.60	64	238973	10.657	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1588253	9.887	ppbv	96
9) Propene	3.03	41	523264	11.360	ppbv	100
10) Heptane	8.24	43	1326722	10.171	ppbv	99
11) Trichlorofluoromethane	4.00	101	1727716	9.085	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1189144	8.955	ppbv	96
13) Ethanol	3.65	45	111255	7.473	ppbv	99
14) Bromoethene	3.78	108	539683	11.055	ppbv	97
15) Acetone	3.90	43	1124311	8.571	ppbv	99
16) 1,3-Butadiene	3.36	39	570756	10.926	ppbv	100
17) tert-Butyl alcohol	4.35	59	1155671	10.895	ppbv	100
18) 1,1-Dichloroethene	4.35	96	546971	9.759	ppbv	97
19) Isopropyl Alcohol	4.02	45	874796	10.343	ppbv	99
20) Methylene Chloride	4.41	84	459414	9.096	ppbv	97
21) Allyl Chloride	4.47	41	799989	9.778	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	546486	9.512	ppbv	92
23) Vinyl Acetate	5.15	43	1906287	11.022	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1301990	9.903	ppbv	98
25) Ethyl Acetate	5.77	43	2223054	9.647	ppbv	99
26) Hexane	5.78	57	999522	10.090	ppbv	98
27) Carbon Disulfide	4.62	76	1327609	9.768	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1784077	11.047	ppbv	100
29) Chloroform	5.85	83	1669286	9.148	ppbv	99
30) Cyclohexane	7.25	84	895474	10.752	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	1022891	10.414	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	1678760	9.214	ppbv	99
34) 2-Butanone	5.33	43	1500670	9.732	ppbv	98
35) Carbon Tetrachloride	7.13	117	1731370	8.688	ppbv	99
36) Benzene	7.00	78	2151234	9.506	ppbv	97
37) 1,2-Dichloroethane	6.41	62	1202693	8.239	ppbv	98
38) Trichloroethene	7.96	130	890994	10.611	ppbv	97
39) 1,2-Dichloropropane	7.73	63	817034	9.684	ppbv	96
40) 1,4-Dioxane	7.95	88	354222	10.036	ppbv #	89
41) Tetrahydrofuran	6.15	42	859591	9.949	ppbv	97
42) Bromodichloromethane	7.91	83	1830961	9.162	ppbv	97
43) Methyl Methacrylate	8.13	69	872368	10.475	ppbv	96

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ClientSampleId :
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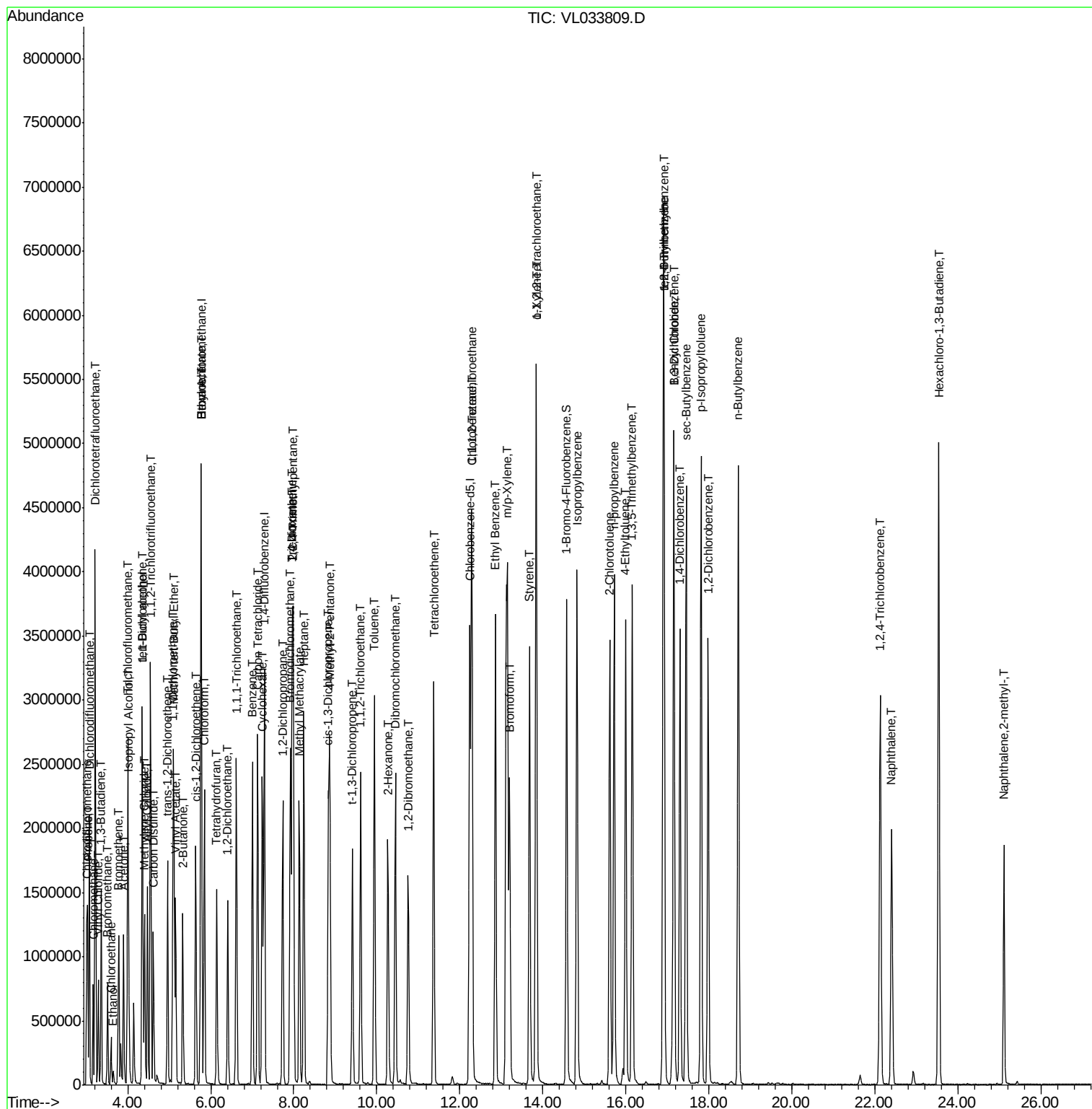
Quant Time: May 29 04:39:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
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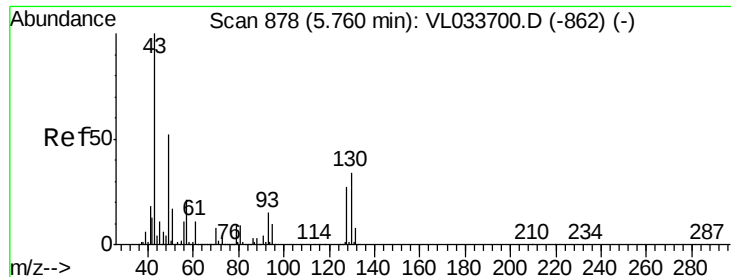
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3546574	9.273	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1121197	10.619	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1280969	10.361	ppbv	94
47) 1,1,2-Trichloroethane	9.61	97	898592	9.375	ppbv	99
48) Dibromochloromethane	10.44	129	1570297	9.455	ppbv	100
49) Bromoform	13.20	173	1430169	10.235	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2195358	9.256	ppbv	98
51) 2-Hexanone	10.26	43	1821069	9.838	ppbv #	99
52) Tetrachloroethene	11.37	164	826679	10.392	ppbv	97
53) Toluene	9.94	91	2546624	10.433	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1398260	9.559	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1062237	7.529	ppbv	98
57) Chlorobenzene	12.30	112	1908771	7.605	ppbv	97
58) Ethyl Benzene	12.86	91	3510540	8.694	ppbv	100
59) m/p-Xylene	13.15	91	3073311	8.707	ppbv #	36
60) o-Xylene	13.85	91	2802437	7.876	ppbv	97
61) Styrene	13.68	104	2207321	9.214	ppbv	98
62) Isopropylbenzene	14.82	105	3807992	7.947	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1944932	7.517	ppbv	99
64) n-propylbenzene	15.72	120	1002612	8.089	ppbv	98
65) tert-Butylbenzene	16.90	119	3447134	7.879	ppbv	98
66) Benzyl Chloride	17.15	91	1759715	8.445	ppbv	99
67) sec-Butylbenzene	17.45	105	4858593	7.934	ppbv	100
69) p-Isopropyltoluene	17.81	119	4140694	8.181	ppbv	99
70) n-Butylbenzene	18.71	91	4225252	7.785	ppbv	100
71) 2-Chlorotoluene	15.61	91	2861728	8.050	ppbv	98
72) 4-Ethyltoluene	15.99	105	3325773	8.175	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3179335	8.010	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3310264	7.663	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1974483	7.459	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1934856	7.690	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1920173	7.720	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1360816	7.236	ppbv	99
79) Naphthalene	22.40	128	2715356	6.767	ppbv	99
80) Naphthalene,2-methyl-	25.11	142	1071897	7.031	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1563810	6.656	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

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VSTDCCC010EC

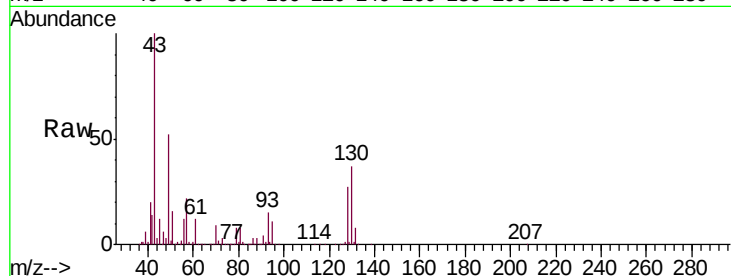
Tgt Ion: 49 Resp: 945433

Ion Ratio Lower Upper

49 100

128 52.5 25.2 75.6

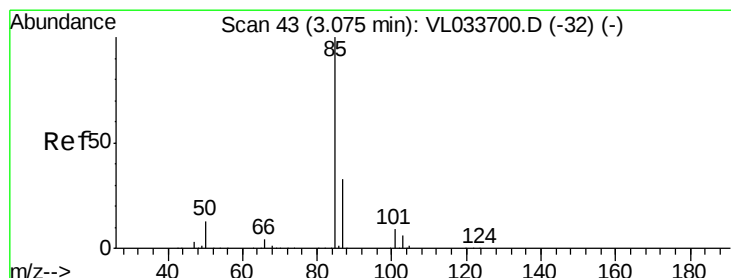
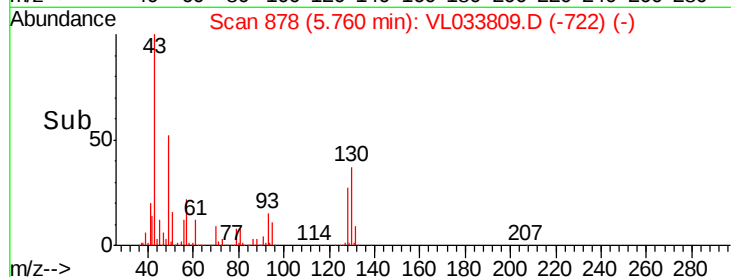
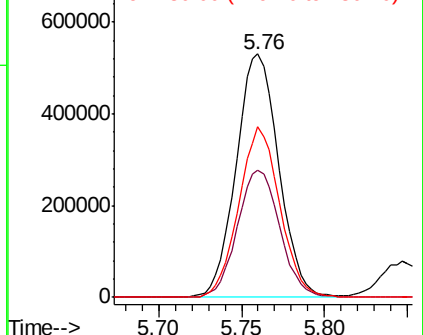
130 67.7 32.5 97.5



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: 7.396 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033809.D

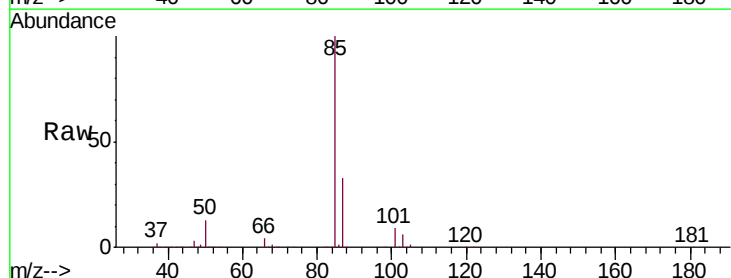
Acq: 28 May 2019 17:42

Tgt Ion: 85 Resp: 1473595

Ion Ratio Lower Upper

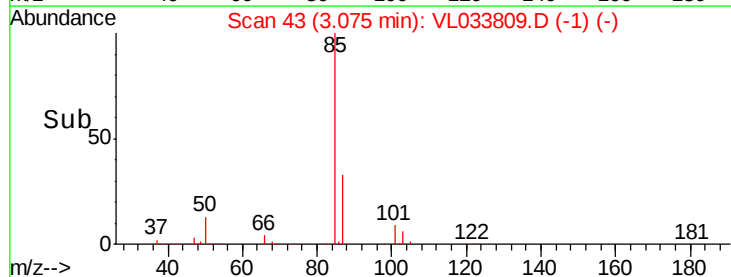
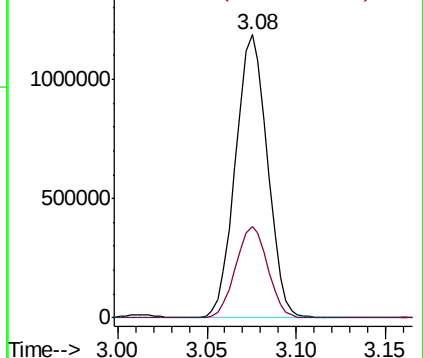
85 100

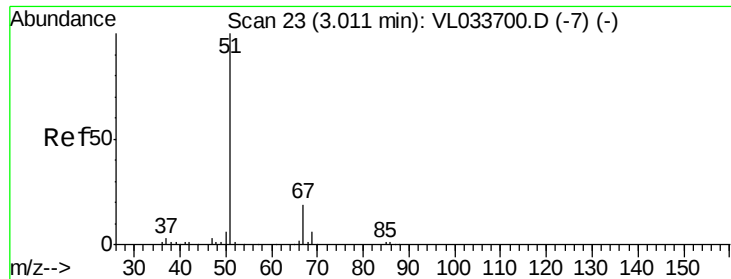
87 32.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.930 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

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ClientSampleId :

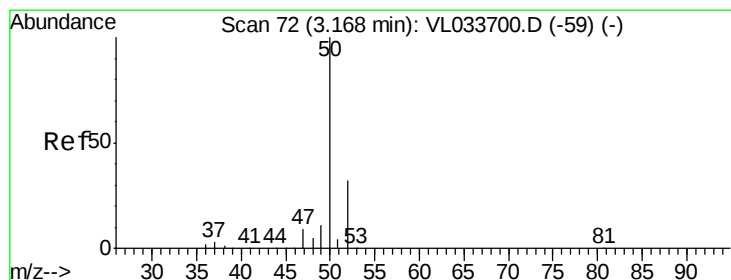
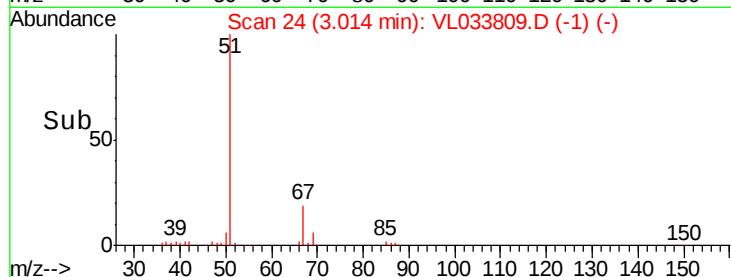
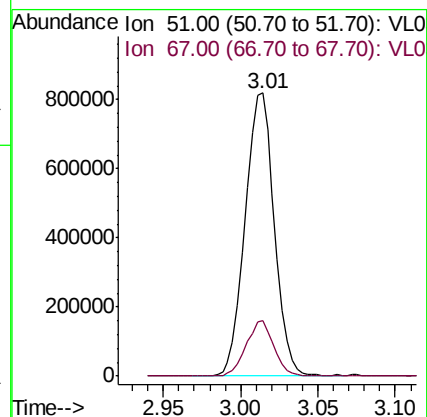
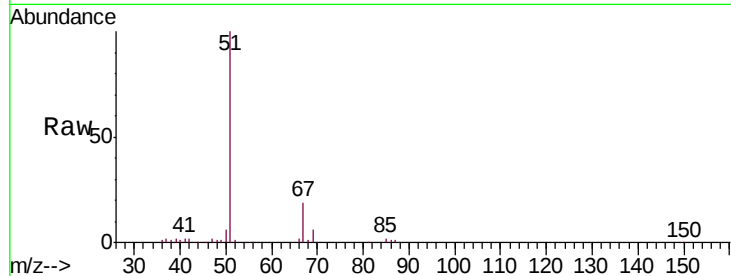
VSTDCCC010EC

Tgt Ion: 51 Resp: 1075358

Ion Ratio Lower Upper

51 100

67 18.6 15.6 23.4



#4

Chloromethane

Concen: 10.782 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033809.D

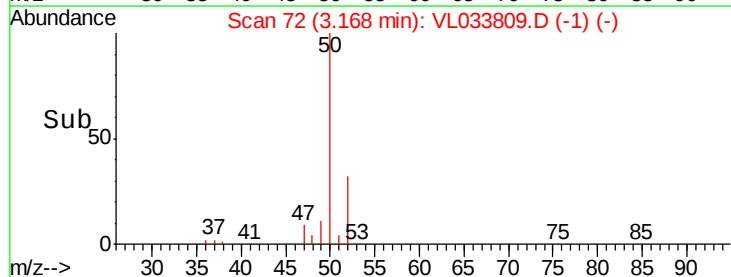
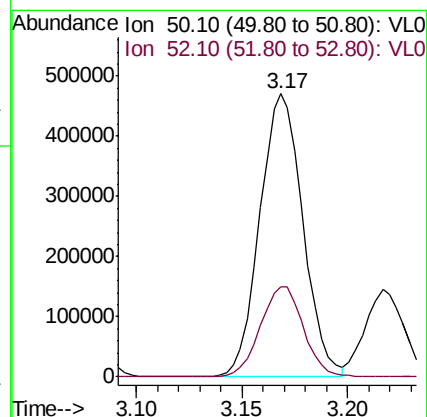
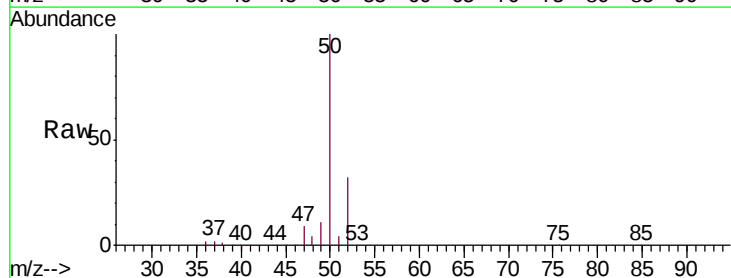
Acq: 28 May 2019 17:42

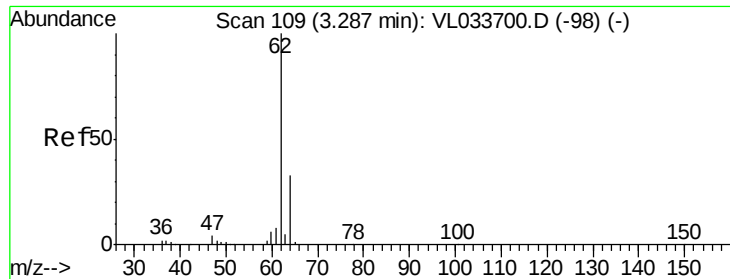
Tgt Ion: 50 Resp: 667815

Ion Ratio Lower Upper

50 100

52 31.9 25.7 38.5





#5

Vinyl Chloride

Concen: 10.335 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

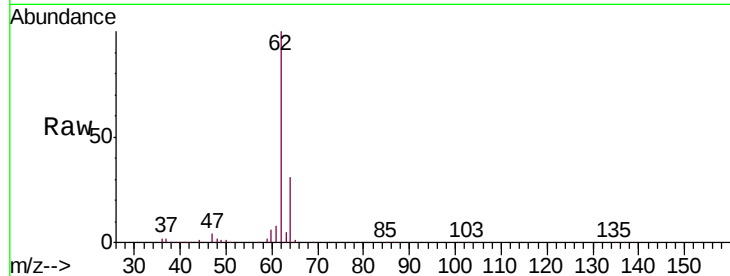
VSTDCCC010EC

Tgt Ion: 62 Resp: 652083

Ion Ratio Lower Upper

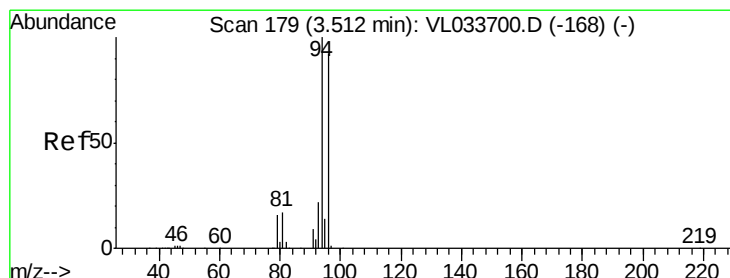
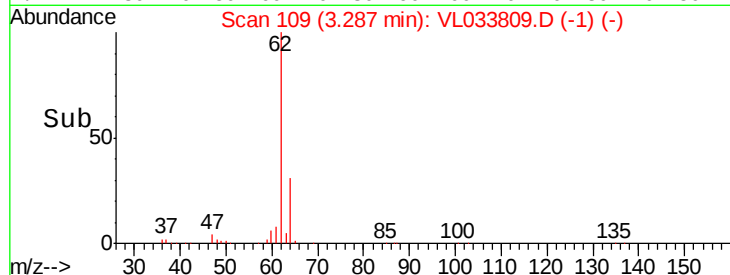
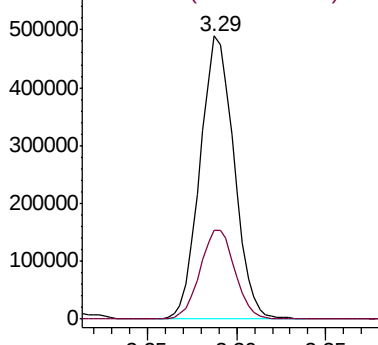
62 100

64 31.4 26.4 39.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.617 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033809.D

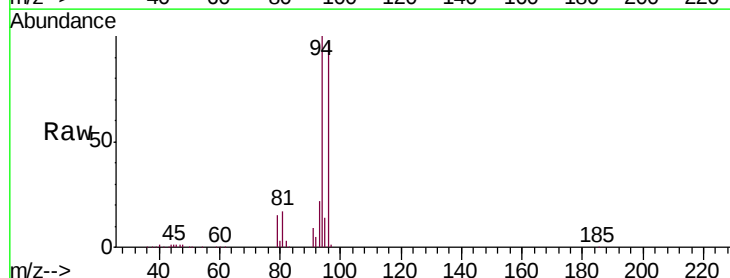
Acq: 28 May 2019 17:42

Tgt Ion: 94 Resp: 408741

Ion Ratio Lower Upper

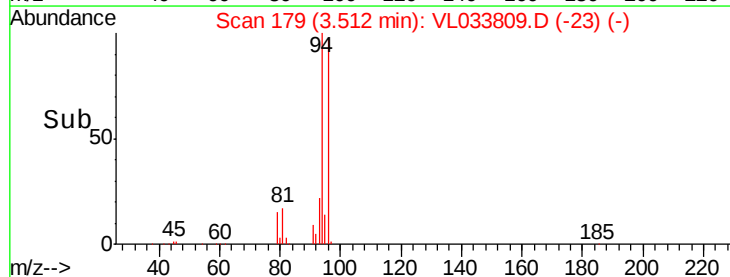
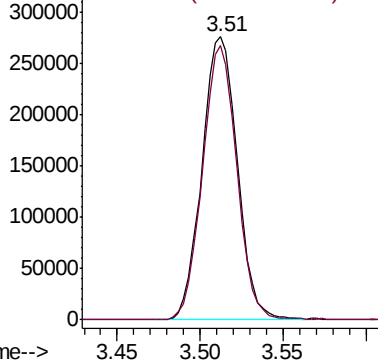
94 100

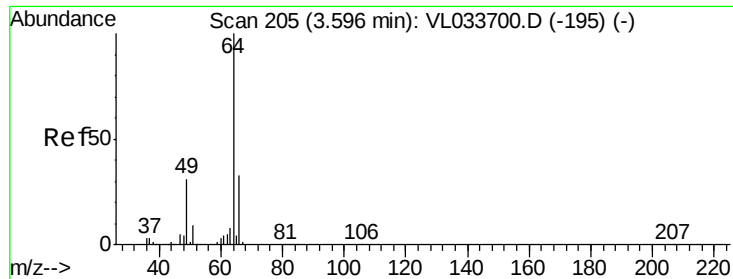
96 96.9 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.657 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

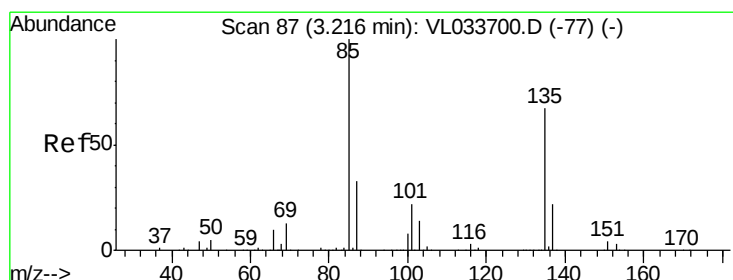
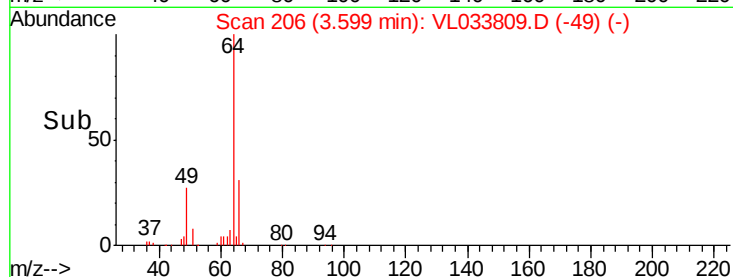
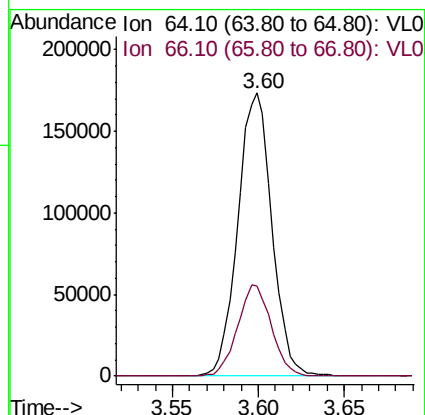
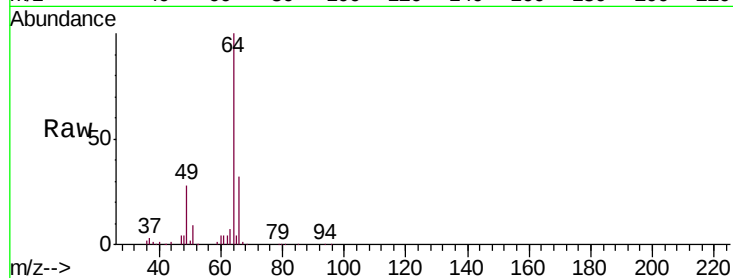
VSTDCCC010EC

Tgt Ion: 64 Resp: 238973

Ion Ratio Lower Upper

64 100

66 32.0 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 9.887 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033809.D

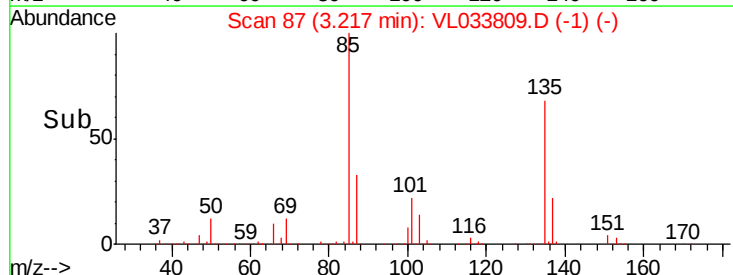
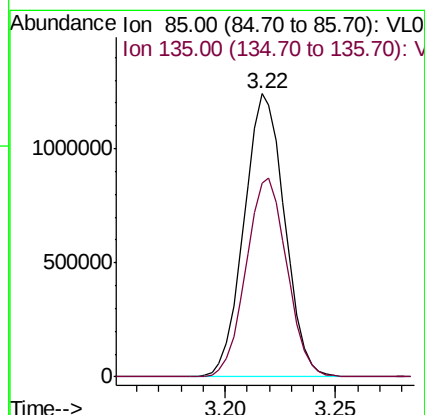
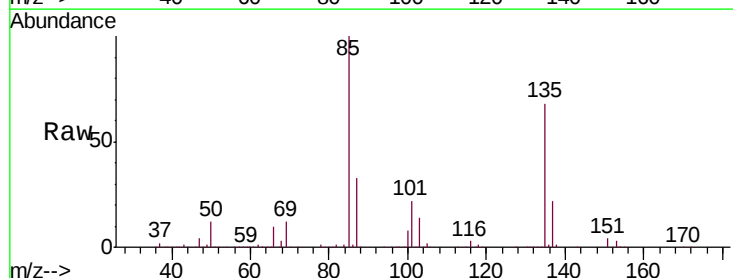
Acq: 28 May 2019 17:42

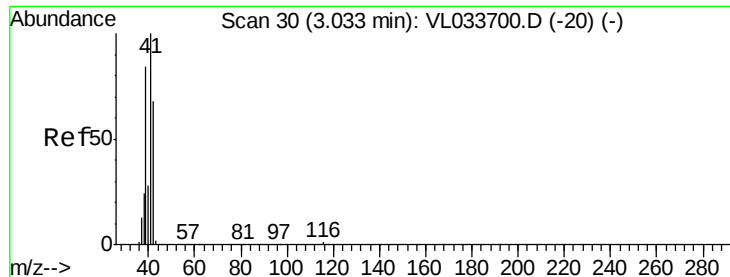
Tgt Ion: 85 Resp: 1588253

Ion Ratio Lower Upper

85 100

135 71.0 54.5 81.7





#9

Propene

Concen: 11.360 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

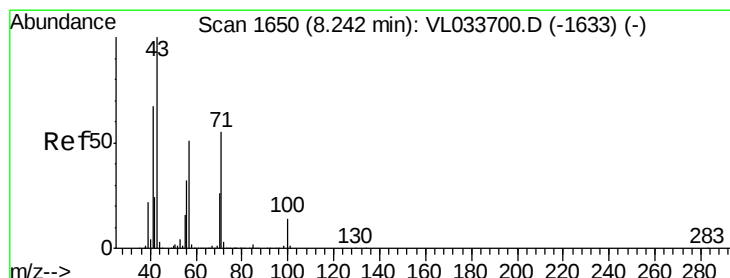
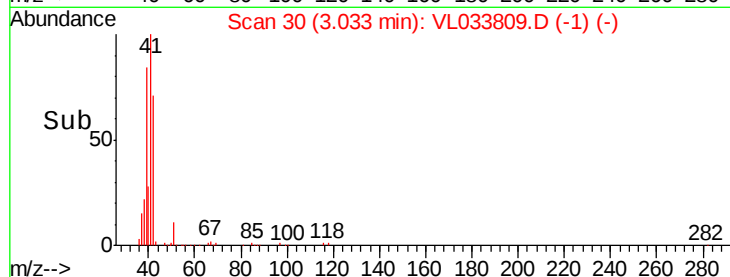
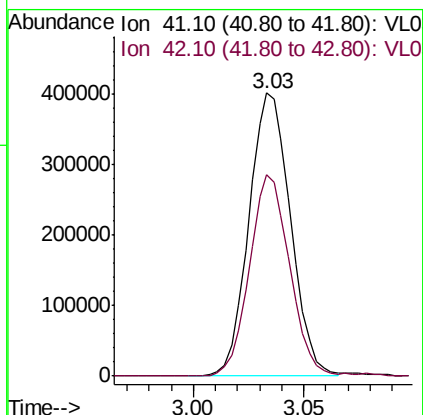
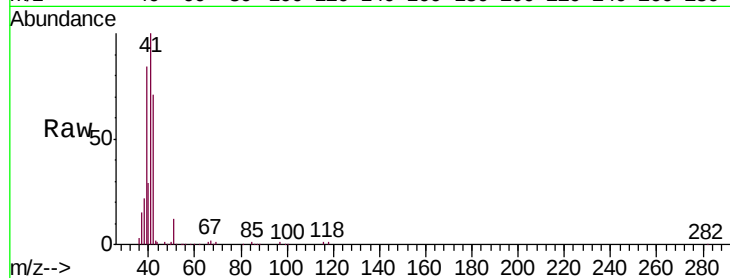
VSTDCCC010EC

Tgt Ion: 41 Resp: 523264

Ion Ratio Lower Upper

41 100

42 69.7 56.1 84.1



#10

Heptane

Concen: 10.171 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033809.D

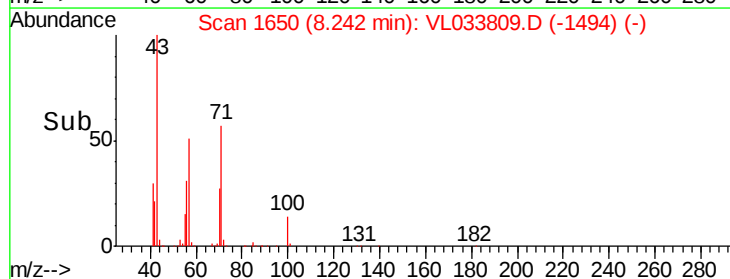
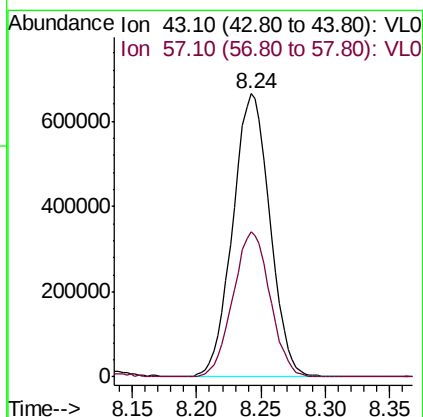
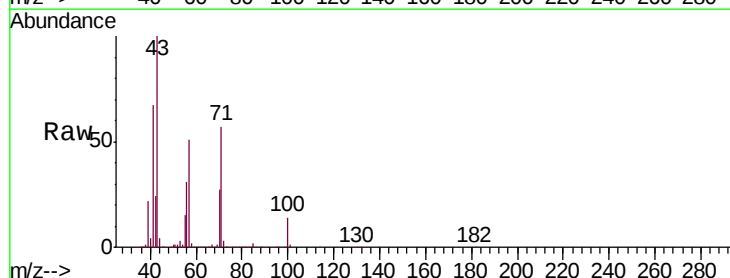
Acq: 28 May 2019 17:42

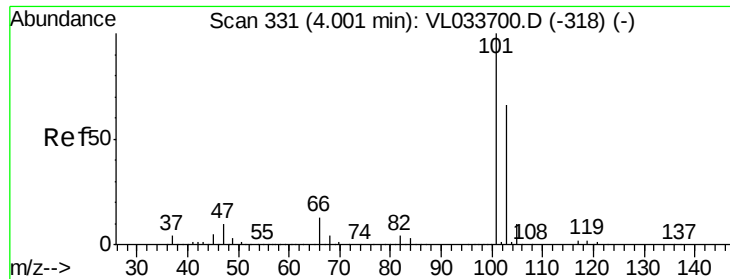
Tgt Ion: 43 Resp: 1326722

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0





#11

Trichlorofluoromethane

Concen: 9.085 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

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Acq: 28 May 2019 17:42

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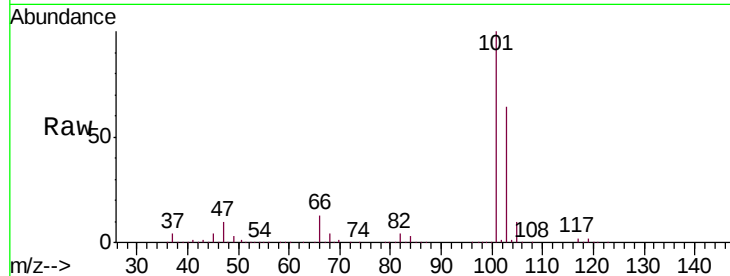
VSTDCCC010EC

Tgt Ion:101 Resp: 1727716

Ion Ratio Lower Upper

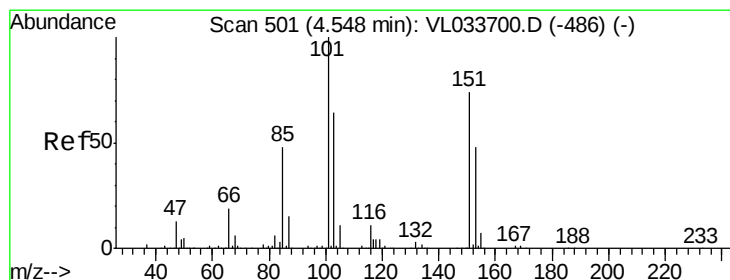
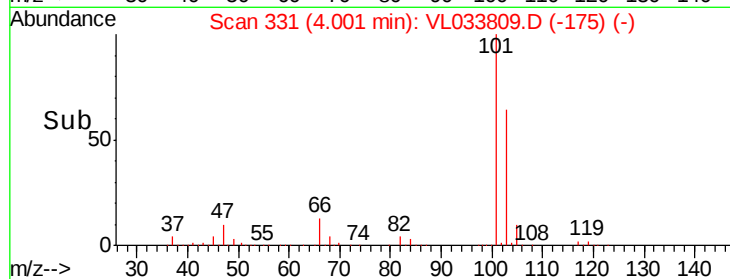
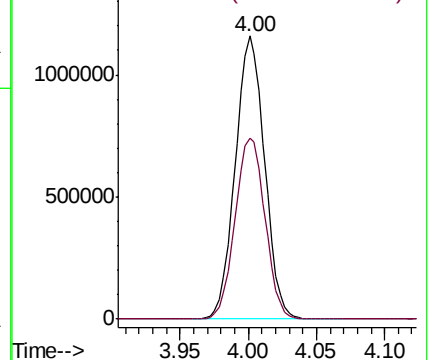
101 100

103 63.7 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.955 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033809.D

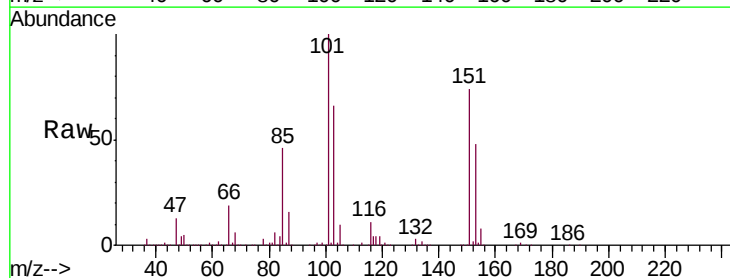
Acq: 28 May 2019 17:42

Tgt Ion:101 Resp: 1189144

Ion Ratio Lower Upper

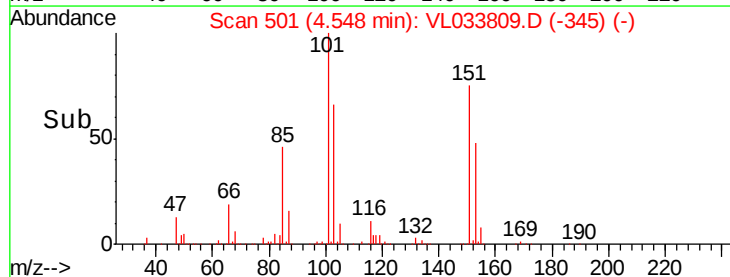
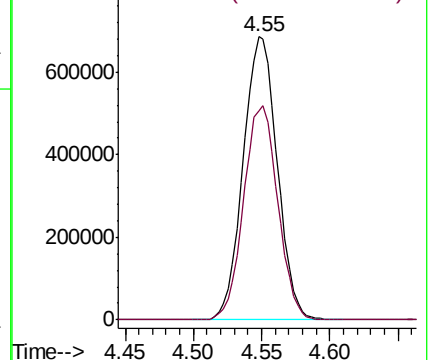
101 100

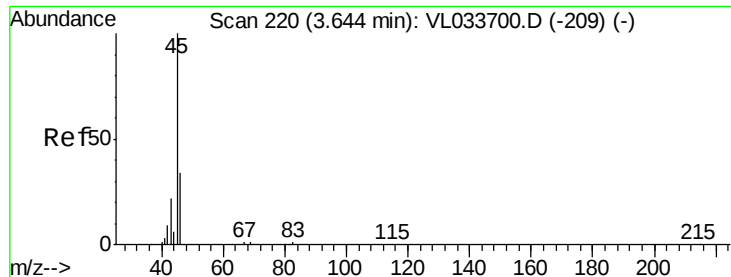
151 75.9 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.473 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

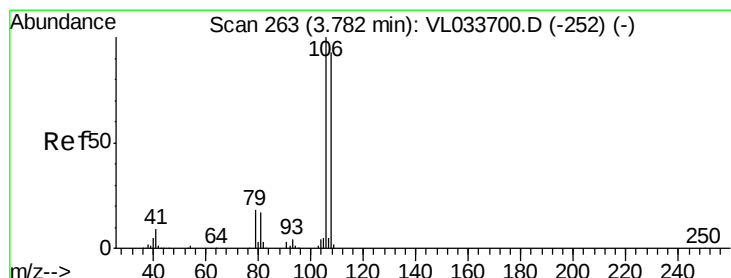
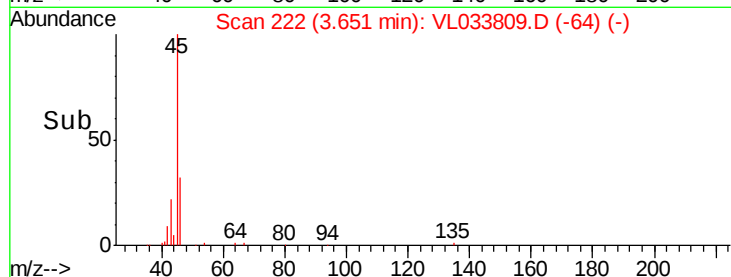
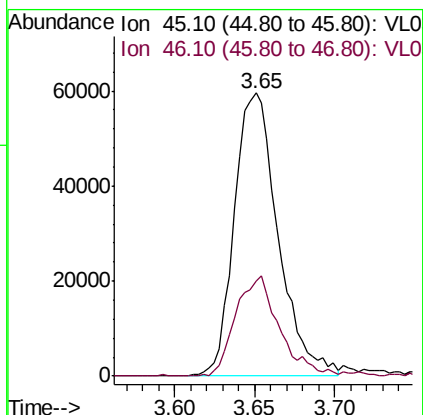
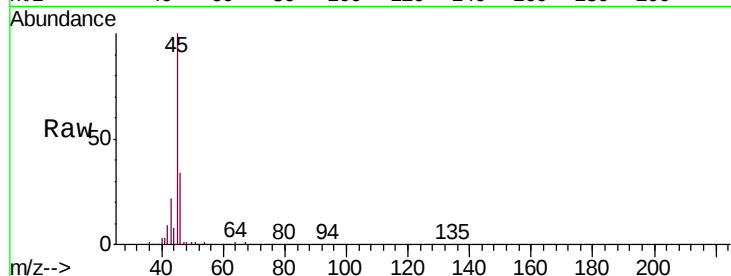
VSTDCCC010EC

Tgt Ion: 45 Resp: 111255

Ion Ratio Lower Upper

45 100

46 36.5 14.8 59.0



#14

Bromoethene

Concen: 11.055 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

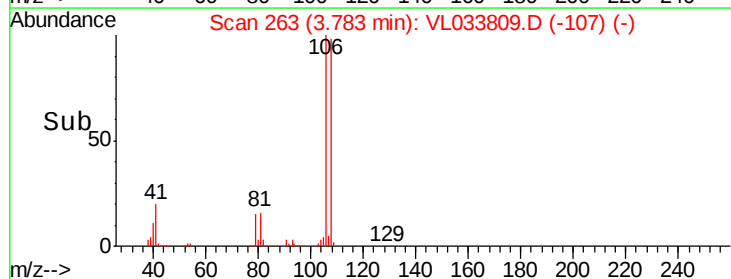
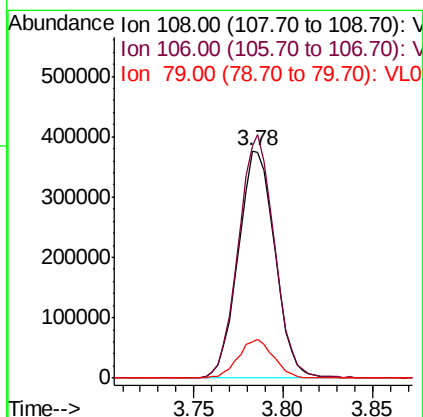
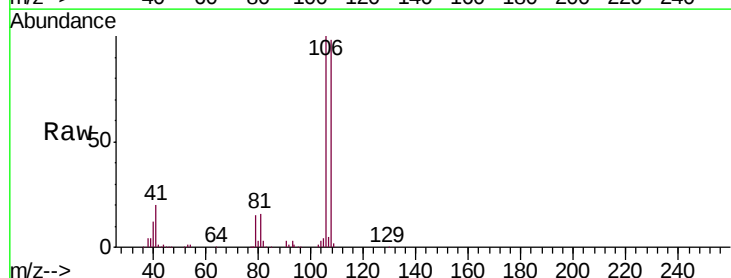
Tgt Ion: 108 Resp: 539683

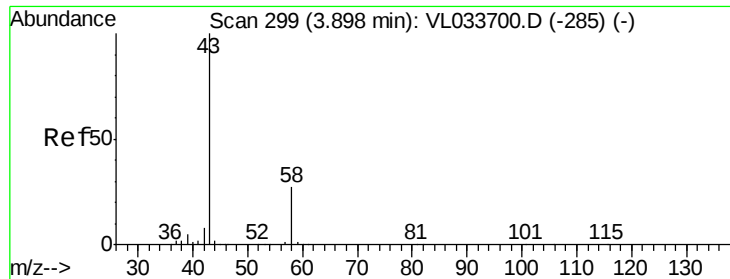
Ion Ratio Lower Upper

108 100

106 105.1 86.5 129.7

79 16.7 15.1 22.7





#15

Acetone

Concen: 8.571 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

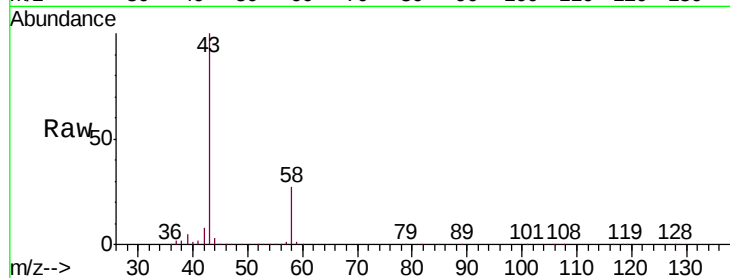
VSTDCCC010EC

Tgt Ion: 43 Resp: 1124311

Ion Ratio Lower Upper

43 100

58 27.0 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

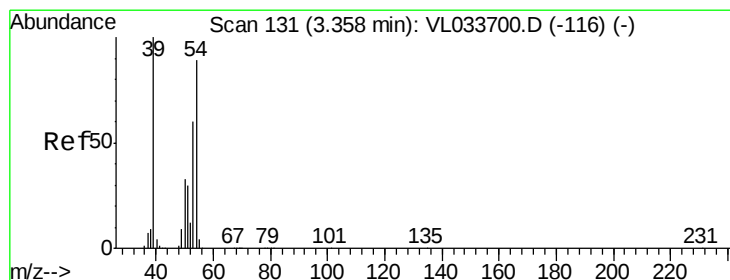
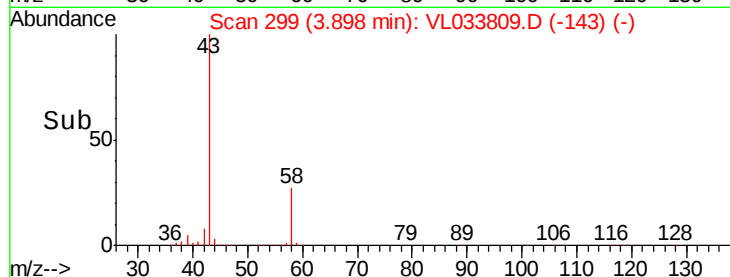
400000

200000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.926 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033809.D

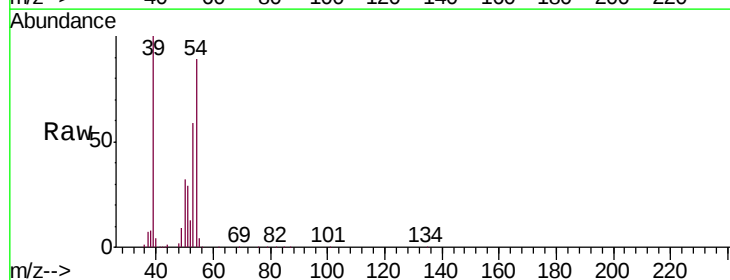
Acq: 28 May 2019 17:42

Tgt Ion: 39 Resp: 570756

Ion Ratio Lower Upper

39 100

54 86.7 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

500000

400000

300000

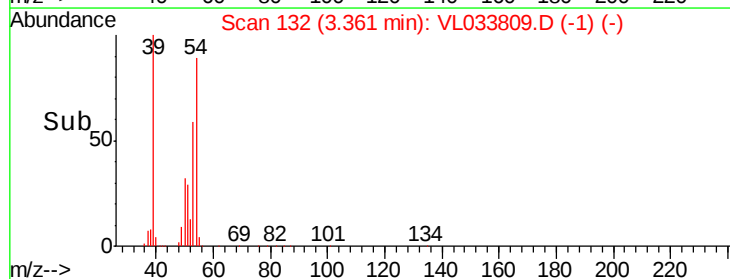
200000

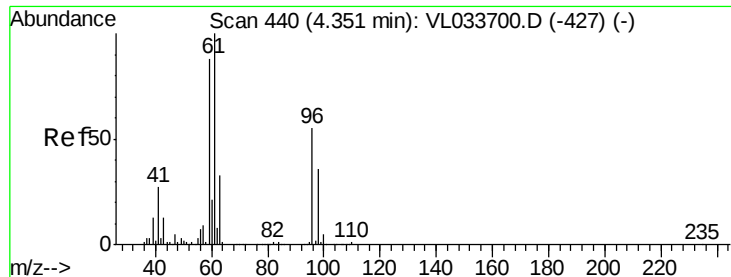
100000

0

3.25 3.30 3.35 3.40 3.45

Time-->



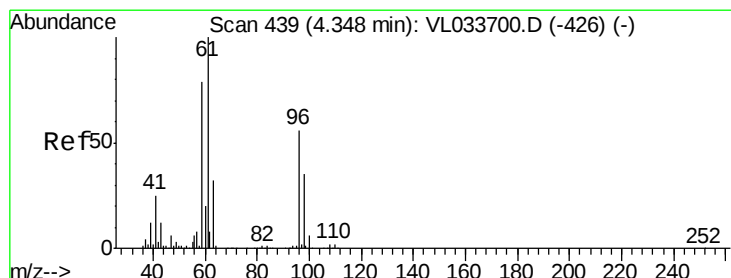
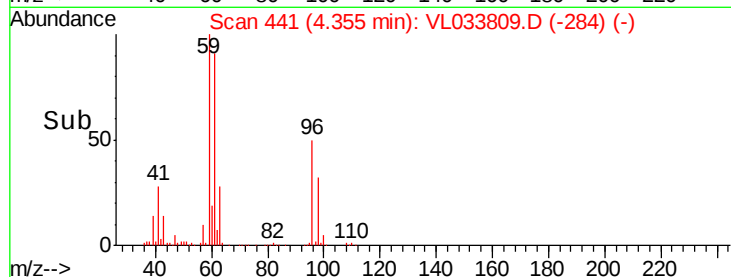
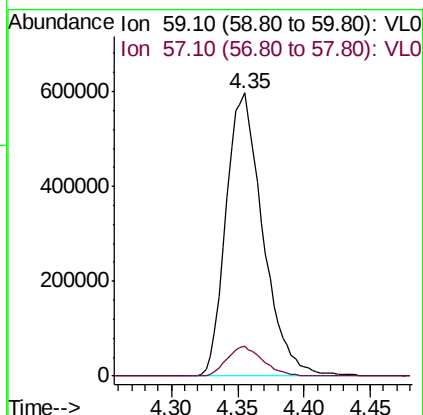
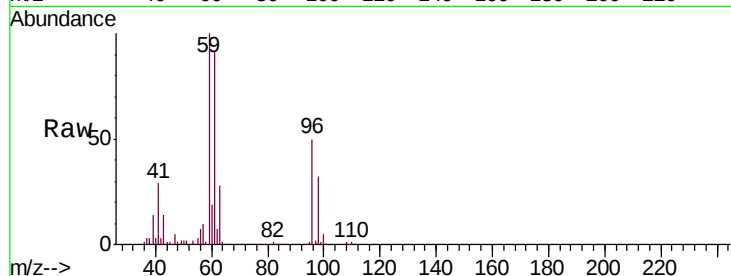


#17

tert-Butyl alcohol
 Concen: 10.895 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

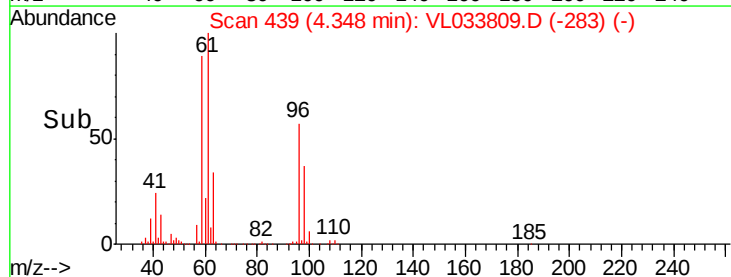
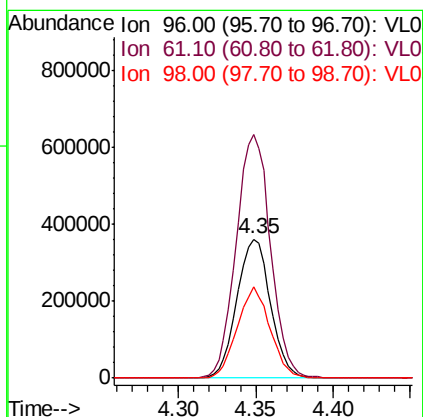
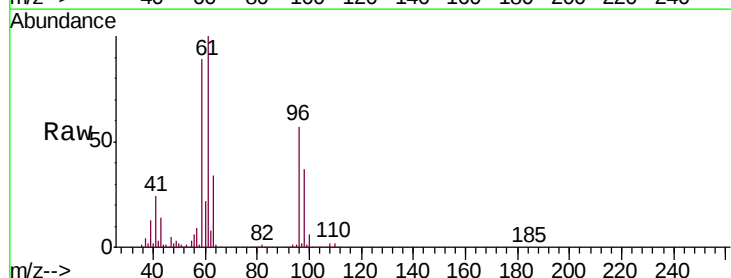
Tgt Ion: 59 Resp: 1155671
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.4 12.6

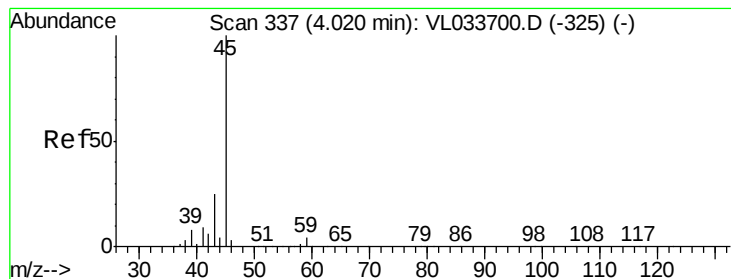


#18

1,1-Dichloroethene
 Concen: 9.759 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 96 Resp: 546971
 Ion Ratio Lower Upper
 96 100
 61 175.5 143.1 214.7
 98 65.4 49.5 74.3





#19

Isopropyl Alcohol

Concen: 10.343 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

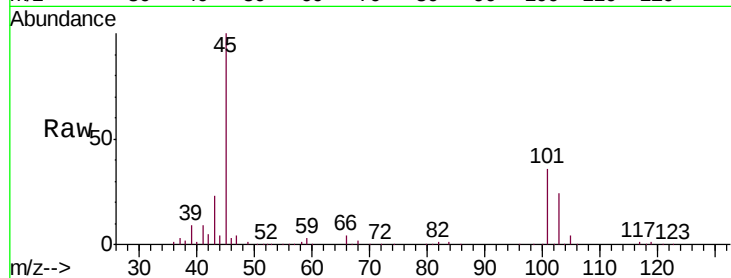
VSTDCCC010EC

Tgt Ion: 45 Resp: 874796

Ion Ratio Lower Upper

45 100

58 1.7 1.6 2.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

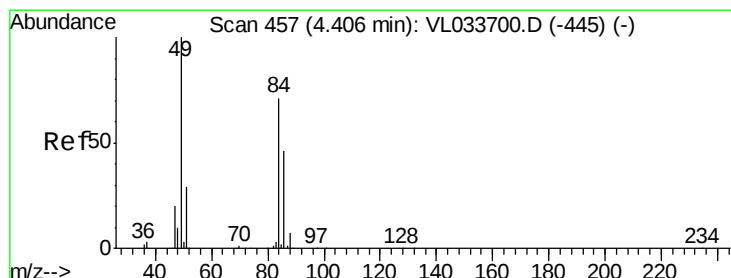
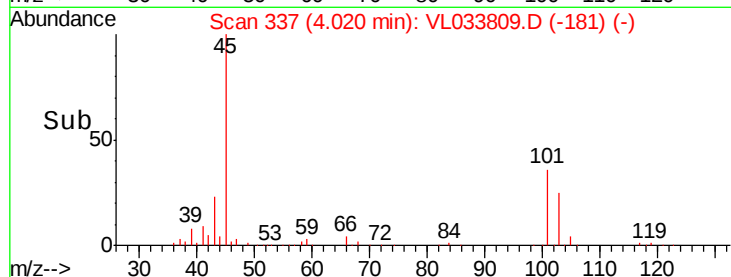
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.096 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion: 84 Resp: 459414

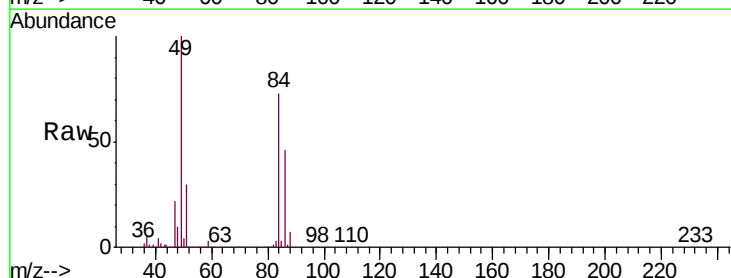
Ion Ratio Lower Upper

84 100

49 136.3 112.8 169.2

51 39.8 33.4 50.0

86 63.5 51.7 77.5



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

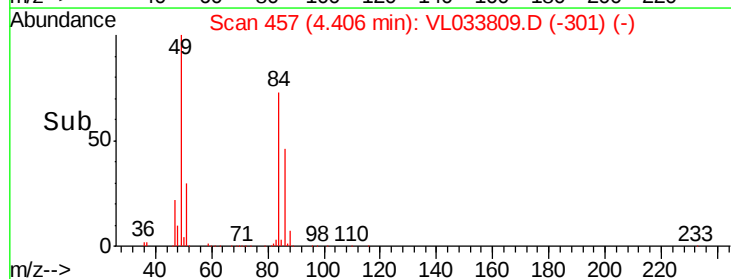
300000

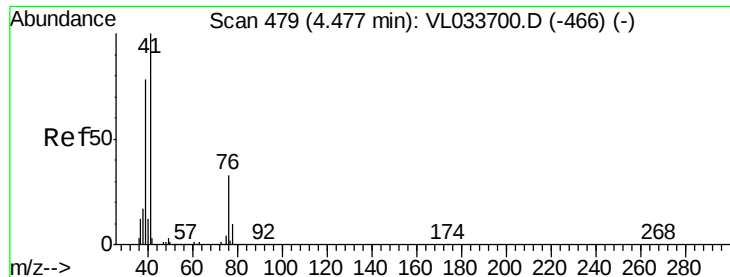
200000

100000

0

Time-->





#21

Allyl Chloride

Concen: 9.778 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

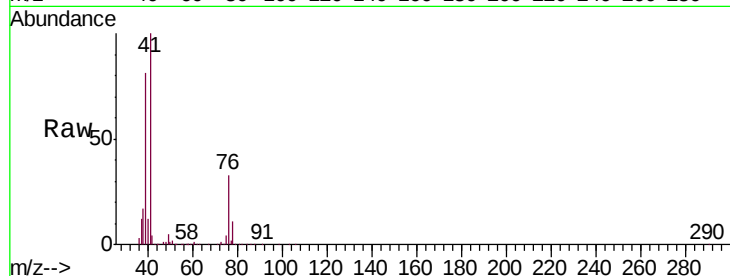
Tgt Ion: 41 Resp: 799989

Ion Ratio Lower Upper

41 100

76 32.3 25.9 38.9

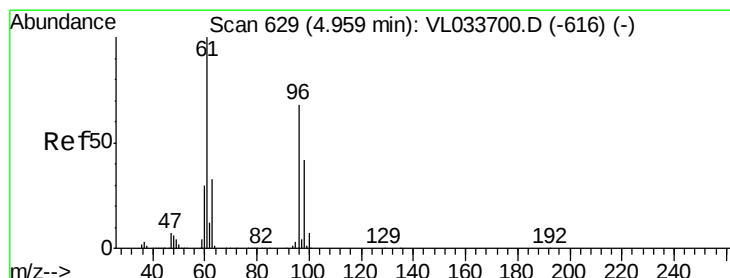
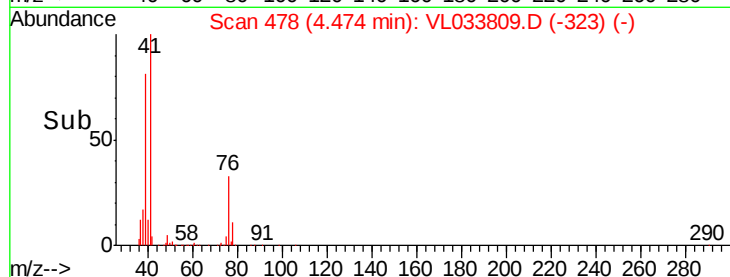
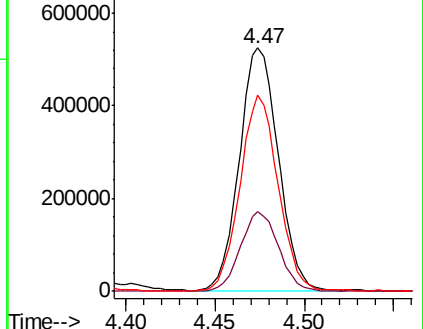
39 79.8 64.6 97.0



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: 9.512 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

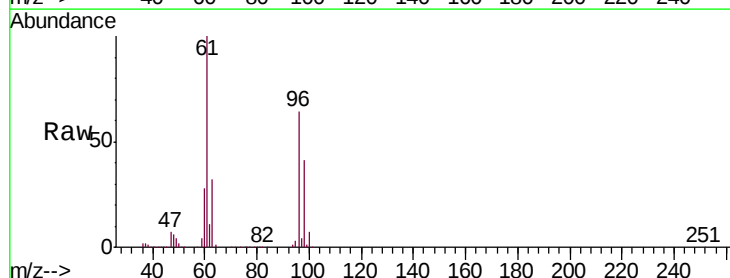
Tgt Ion: 96 Resp: 546486

Ion Ratio Lower Upper

96 100

61 157.4 116.8 175.2

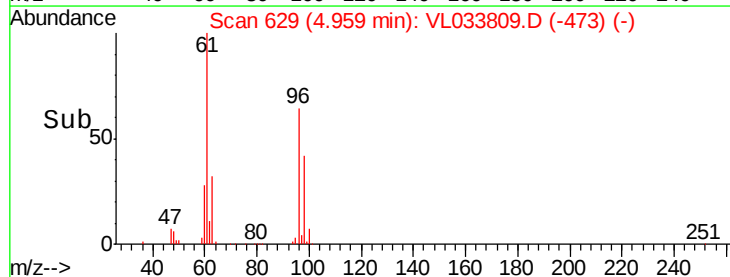
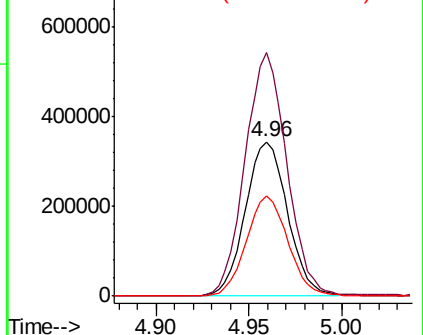
98 65.2 49.4 74.0

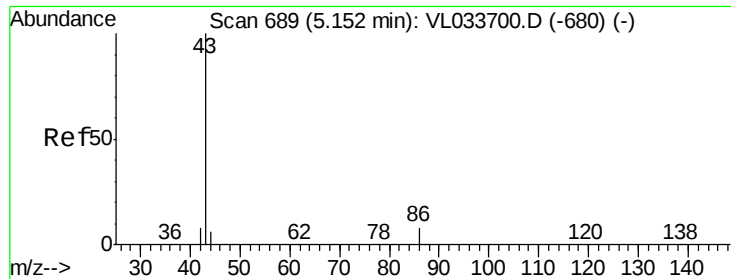


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.022 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1906287

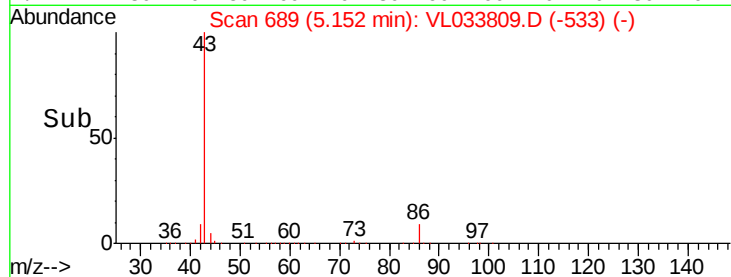
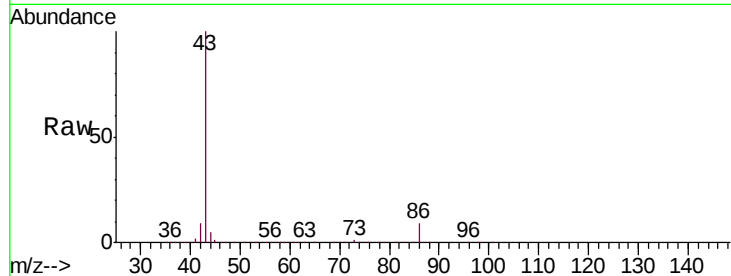
Ion Ratio Lower Upper

43 100

86 8.6 6.0 9.0

42 9.3 7.5 11.3

44 4.9 4.4 6.6

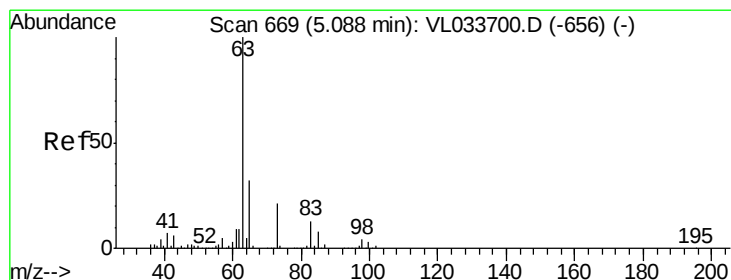
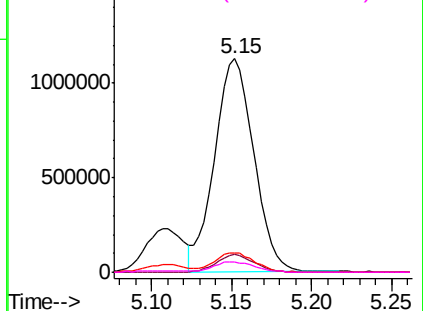


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.903 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

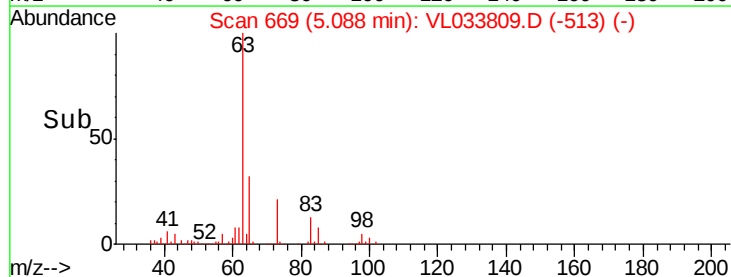
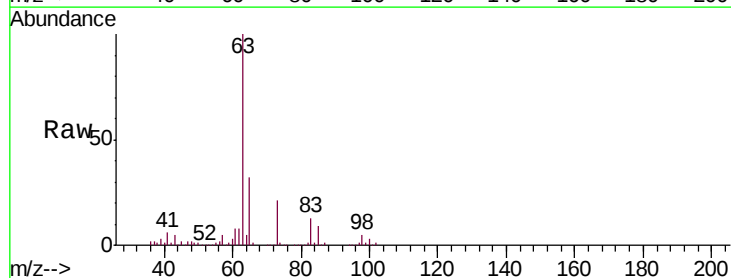
Tgt Ion: 63 Resp: 1301990

Ion Ratio Lower Upper

63 100

98 4.5 1.8 5.5

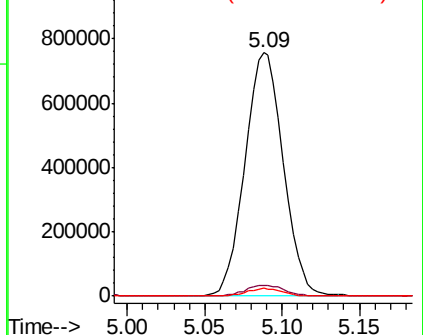
100 3.1 1.4 4.2

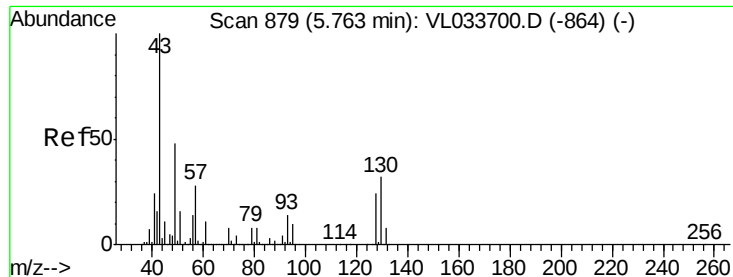


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



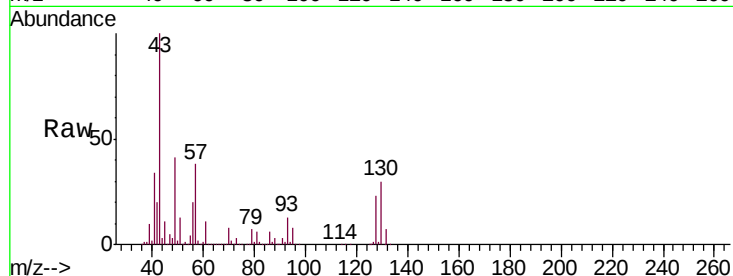


#25
Ethyl Acetate
Concen: 9.647 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 2223054

Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	9.8	7.7	11.5
70	7.5	5.8	8.6



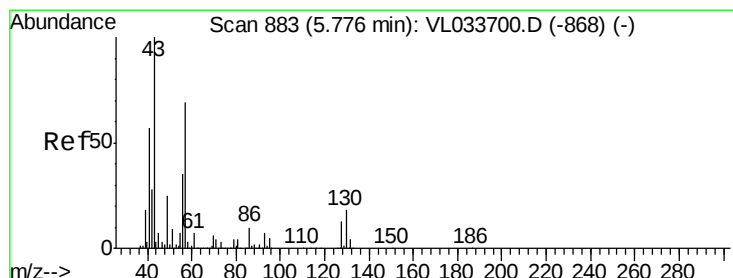
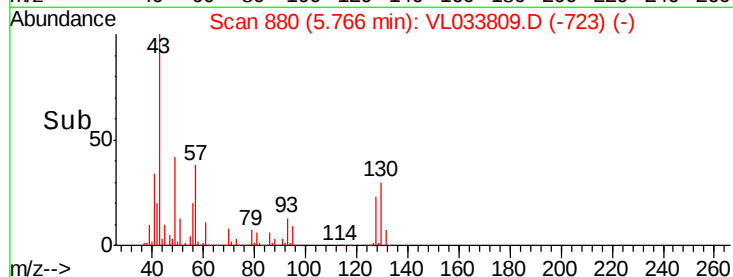
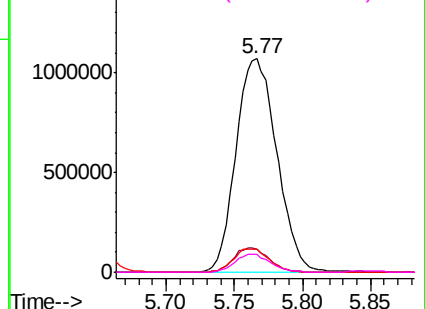
Abundance

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

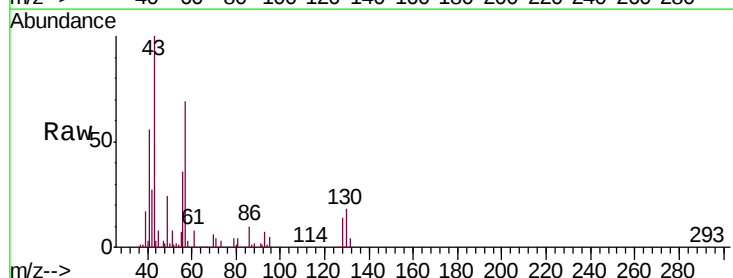
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 10.090 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 57 Resp: 999522

Ion	Ratio	Lower	Upper
57	100		
41	85.1	69.8	104.6
43	223.8	181.8	272.6
56	51.9	42.1	63.1



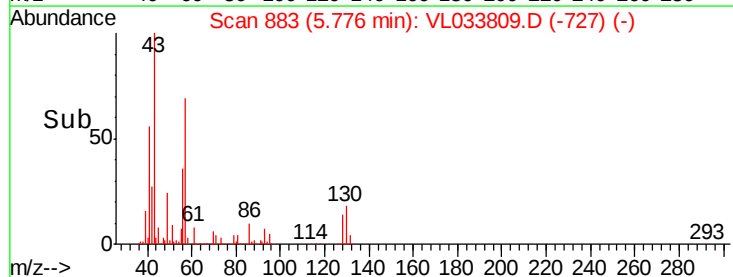
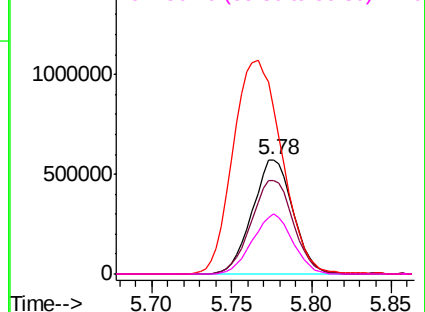
Abundance

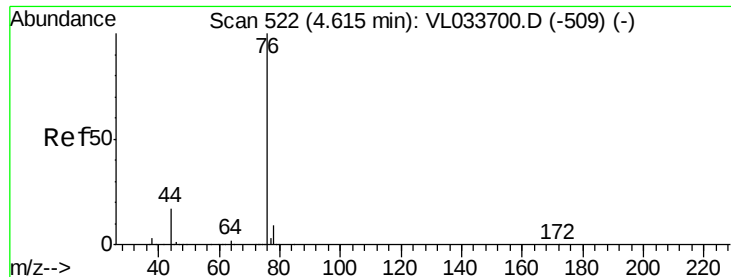
Ion 57.10 (56.80 to 57.80): VL0

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

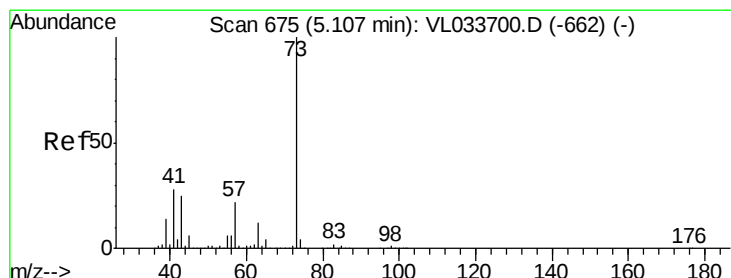
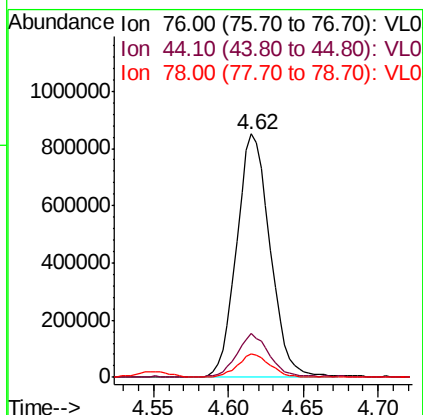
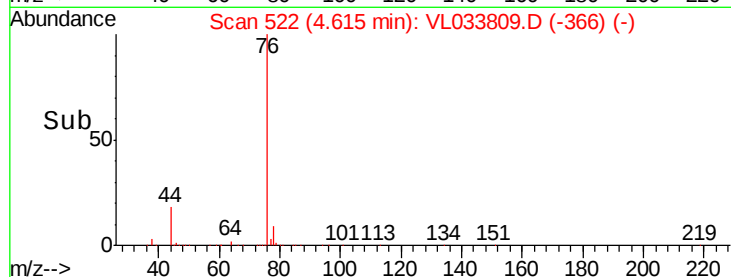
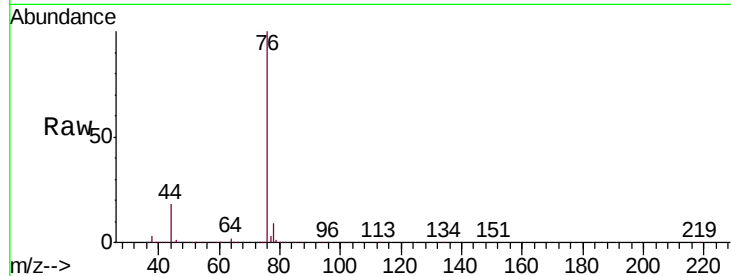




#27
Carbon Disulfide
Concen: 9.768 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

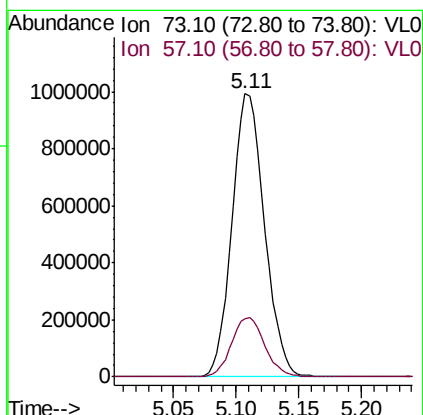
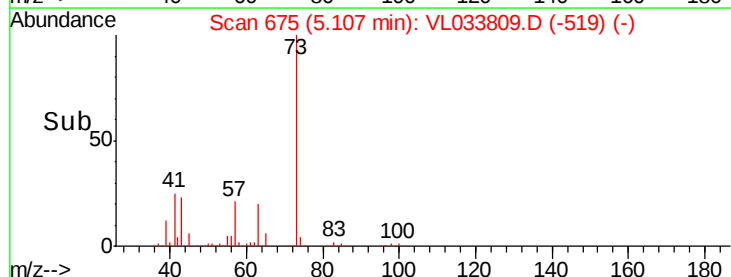
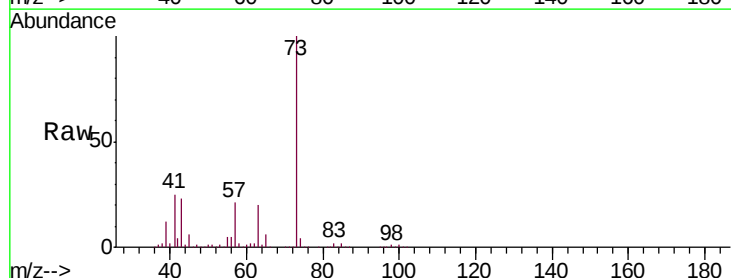
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

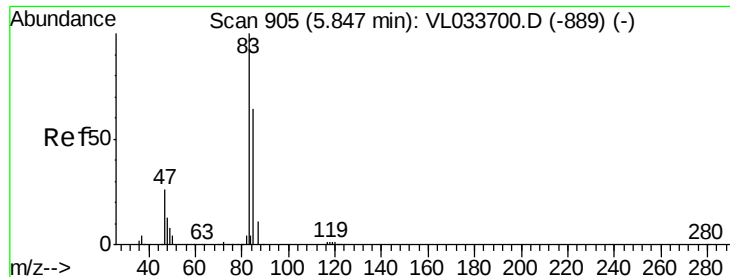
Tgt Ion: 76 Resp: 1327609
Ion Ratio Lower Upper
76 100
44 16.9 13.8 20.8
78 9.2 7.4 11.0



#28
Methyl tert-Butyl Ether
Concen: 11.047 ppbv
RT: 5.11 min Scan# 675
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 73 Resp: 1784077
Ion Ratio Lower Upper
73 100
57 21.6 17.4 26.2





#29

Chloroform

Concen: 9.148 ppbv

RT: 5.85 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

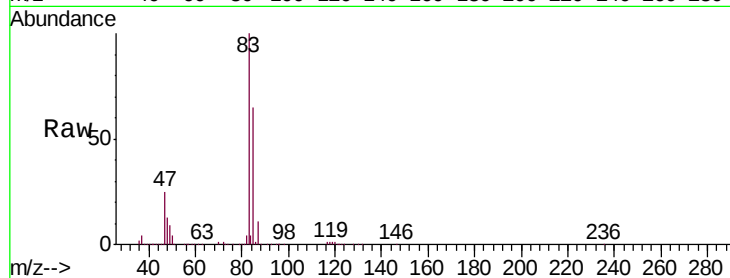
VSTDCCC010EC

Tgt Ion: 83 Resp: 1669286

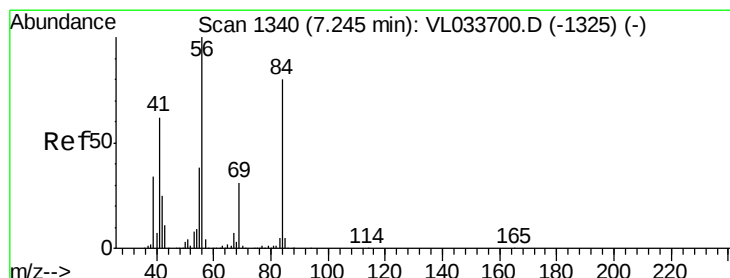
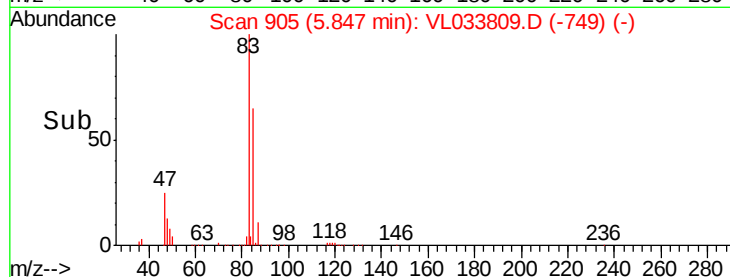
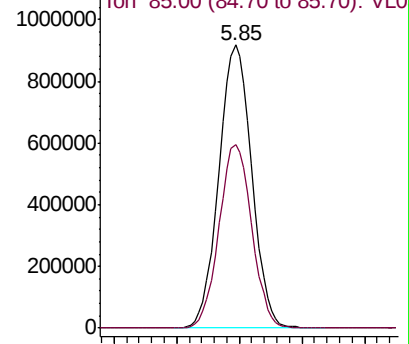
Ion Ratio Lower Upper

83 100

85 64.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0



#30

Cyclohexane

Concen: 10.752 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

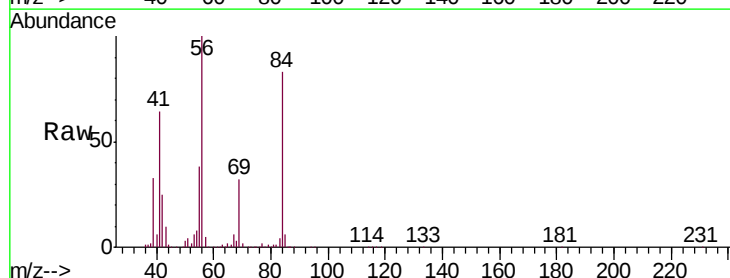
Tgt Ion: 84 Resp: 895474

Ion Ratio Lower Upper

84 100

56 130.1 107.7 161.5

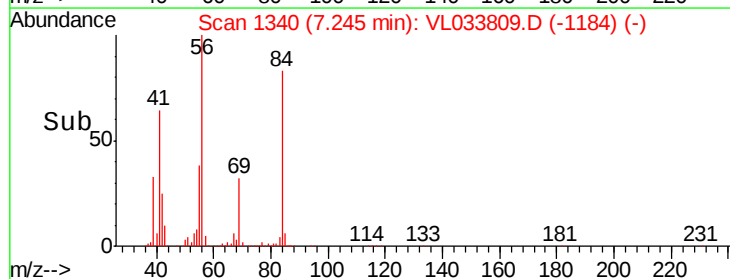
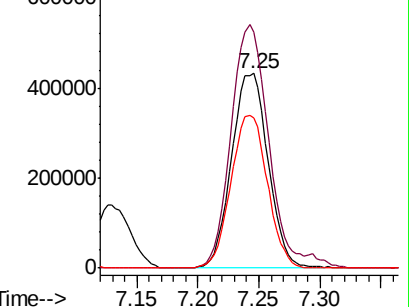
41 78.3 66.0 99.0

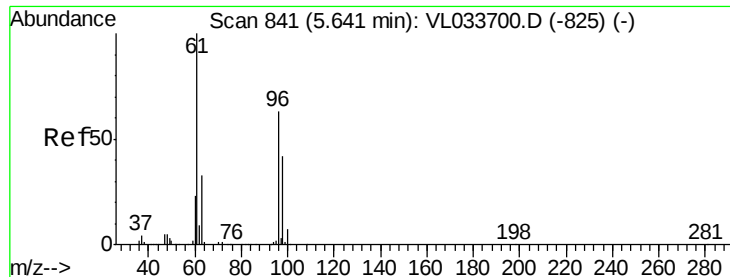


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



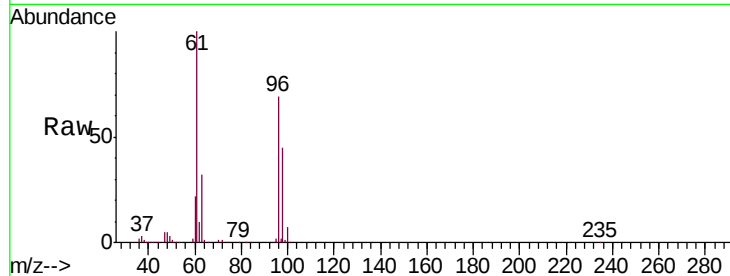


#31

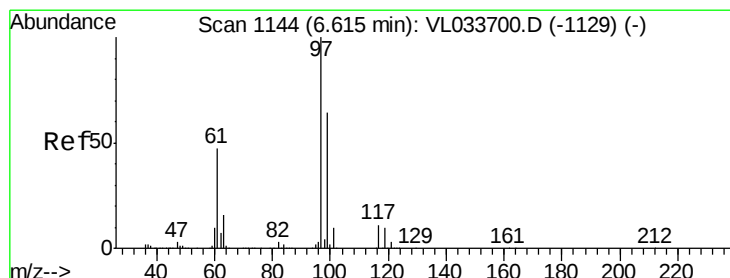
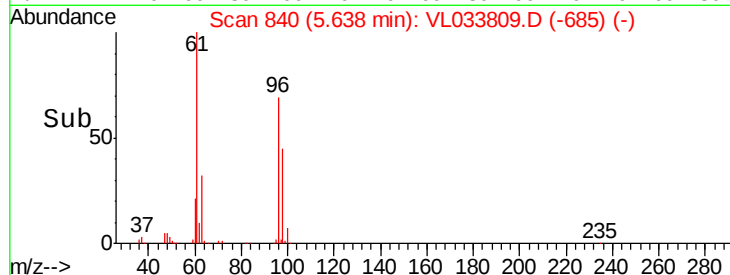
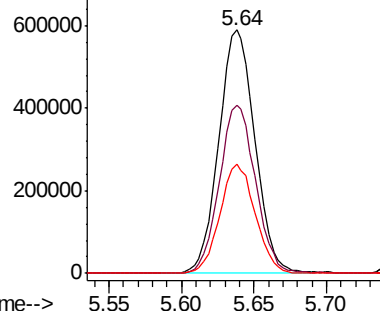
cis-1,2-Dichloroethene
 Concen: 10.414 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 61 Resp: 1022891
 Ion Ratio Lower Upper
 61 100
 96 69.1 50.8 76.2
 98 44.8 33.3 49.9



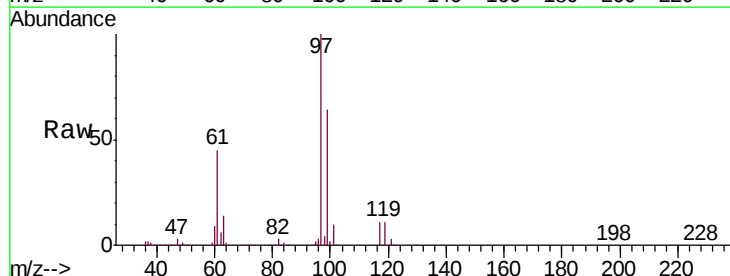
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



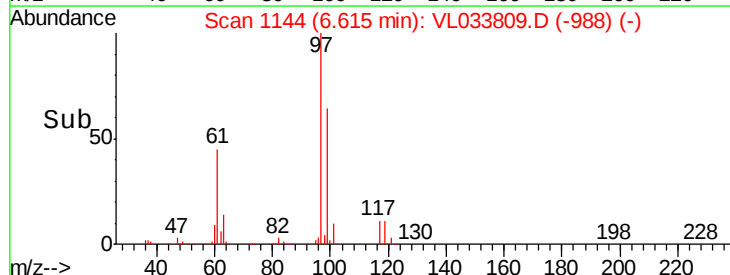
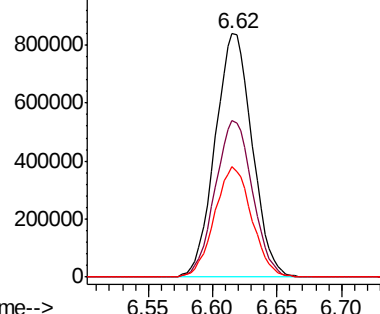
#32

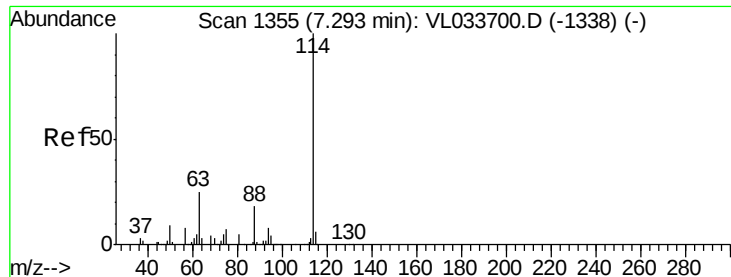
1,1,1-Trichloroethane
 Concen: 9.214 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 97 Resp: 1678760
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.5 77.3
 61 45.6 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

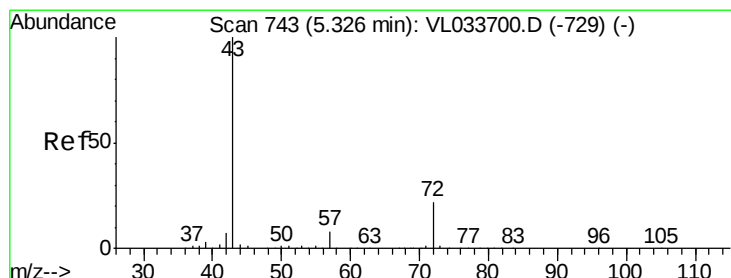
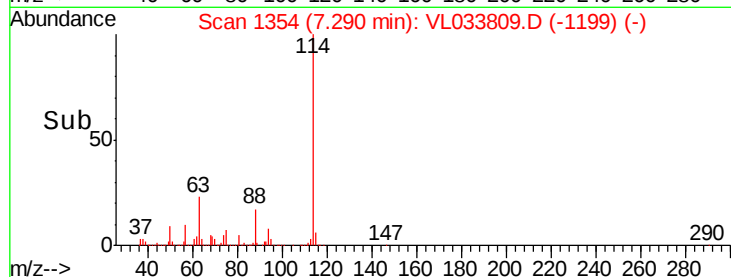
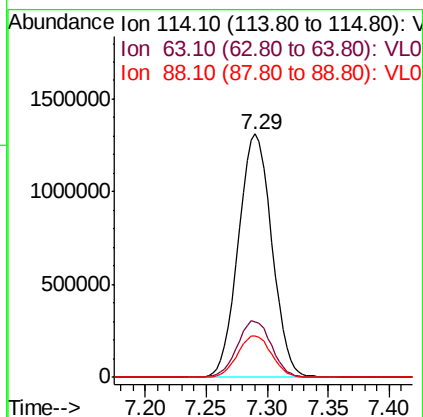
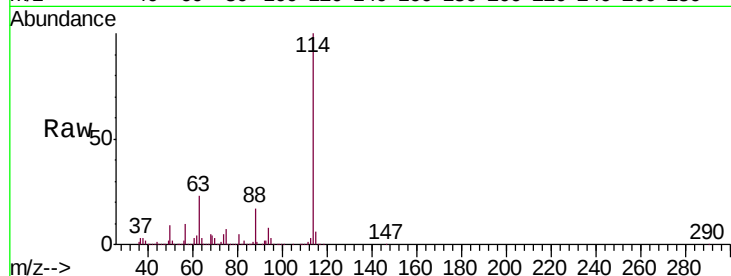




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

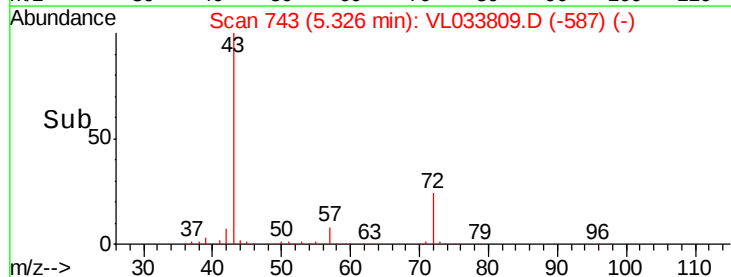
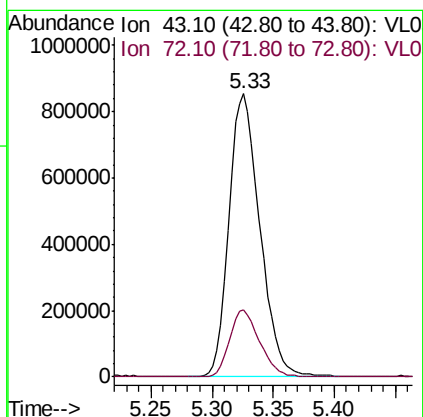
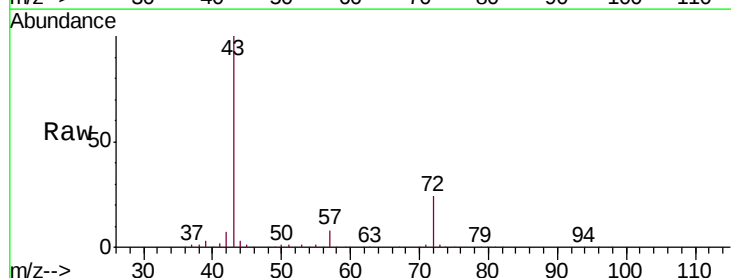
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

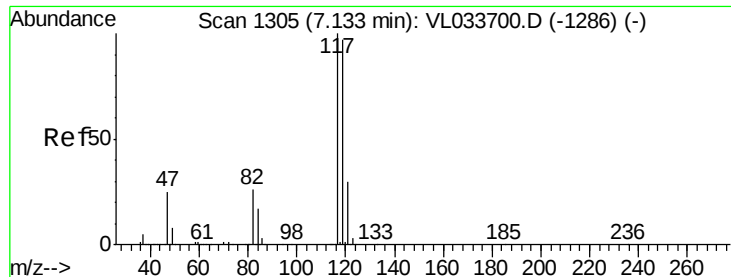
Tgt Ion:114 Resp: 2487769
 Ion Ratio Lower Upper
 114 100
 63 23.9 20.9 31.3
 88 17.4 14.3 21.5



#34
 2-Butanone
 Concen: 9.732 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 43 Resp: 1500670
 Ion Ratio Lower Upper
 43 100
 72 23.1 17.8 26.6





#35

Carbon Tetrachloride

Concen: 8.688 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

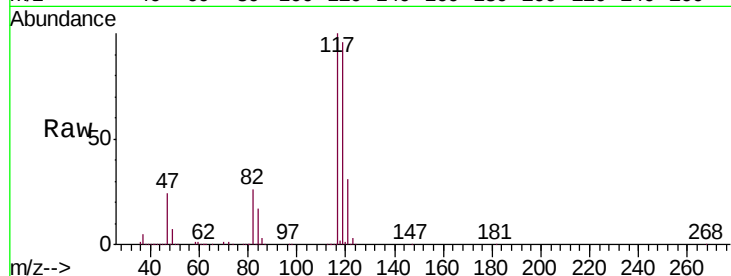
Tgt Ion:117 Resp: 1731370

Ion Ratio Lower Upper

117 100

119 96.4 77.2 115.8

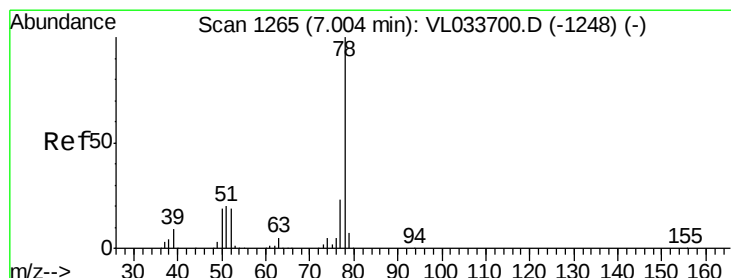
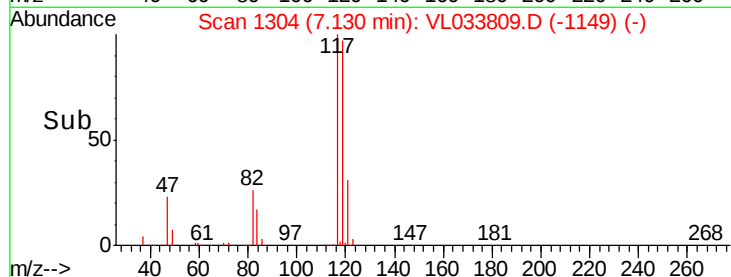
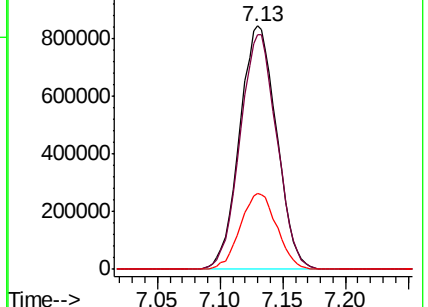
121 31.4 24.1 36.1



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: 9.506 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

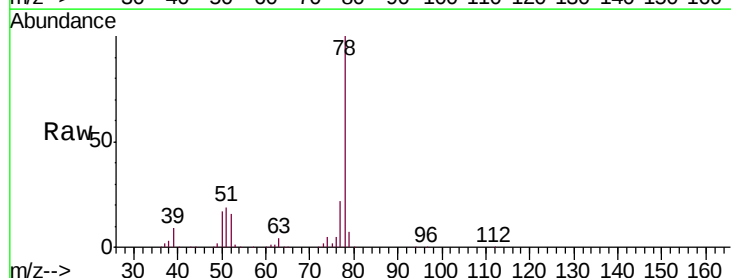
Tgt Ion: 78 Resp: 2151234

Ion Ratio Lower Upper

78 100

77 22.1 18.4 27.6

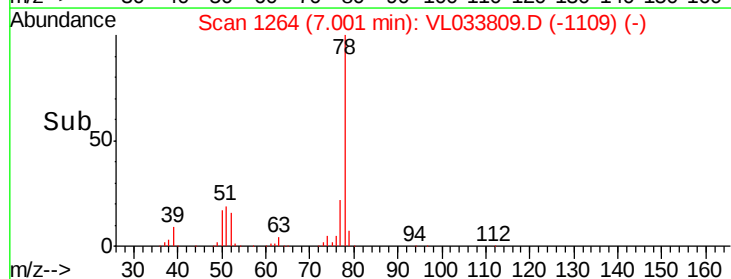
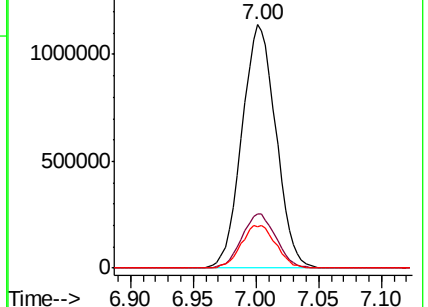
50 17.0 15.5 23.3

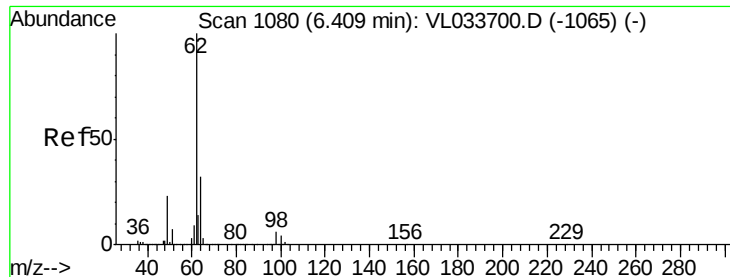


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 8.239 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

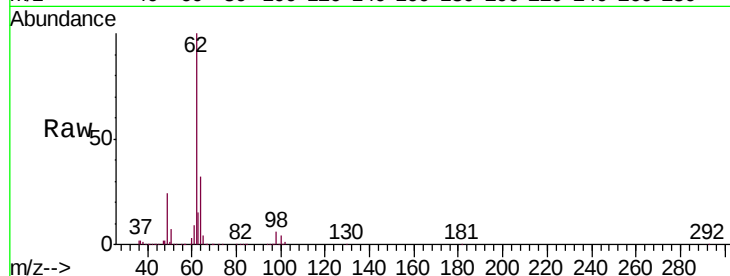
VSTDCCC010EC

Tgt Ion: 62 Resp: 1202693

Ion Ratio Lower Upper

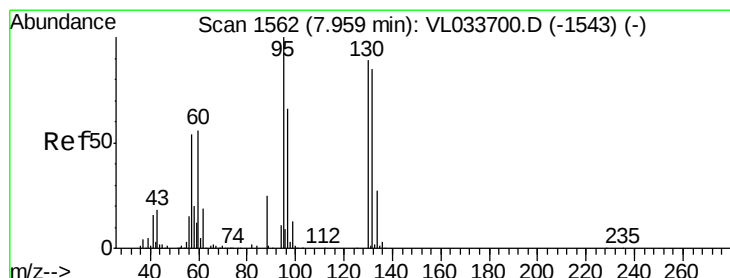
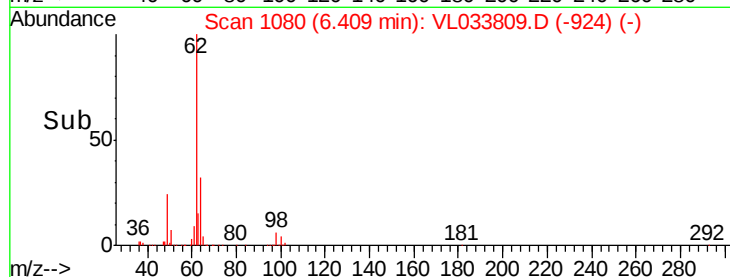
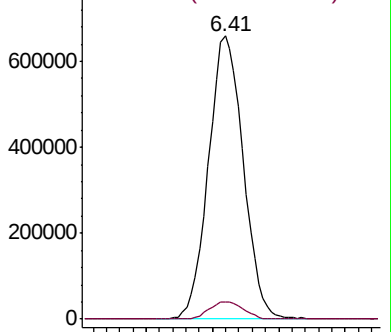
62 100

98 6.3 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 10.611 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion: 130 Resp: 890994

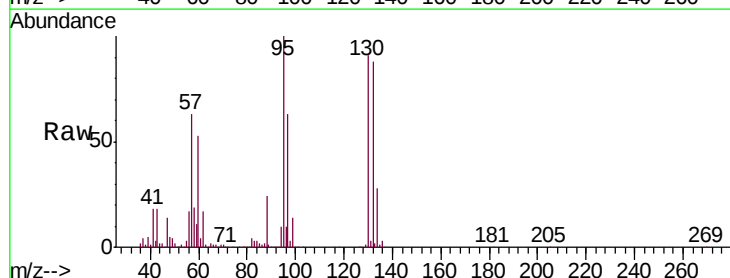
Ion Ratio Lower Upper

130 100

95 109.6 90.2 135.4

132 96.3 76.4 114.6

97 69.0 59.8 89.6

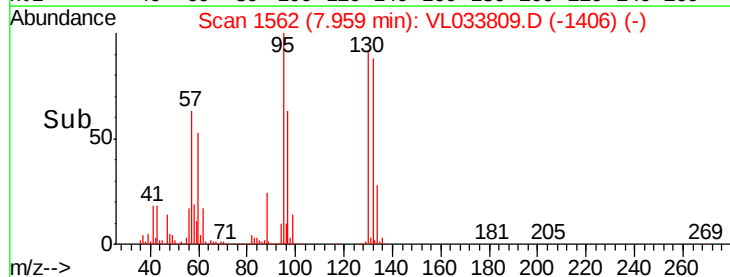
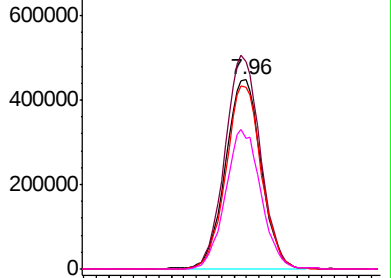


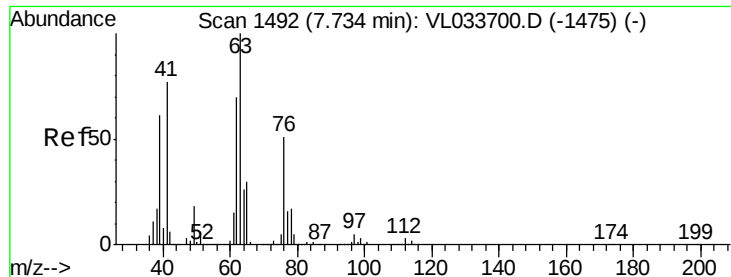
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 9.684 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

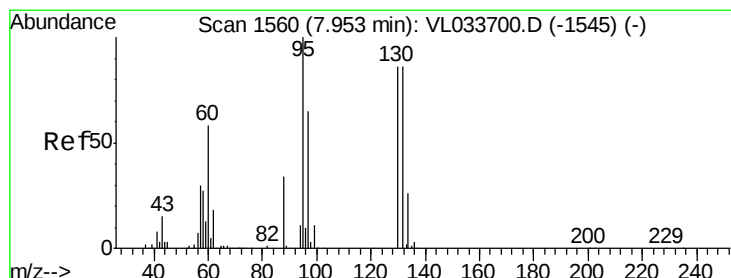
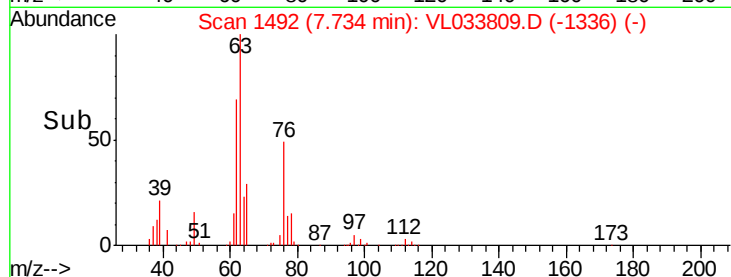
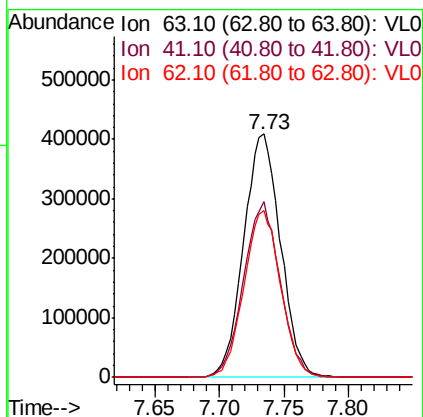
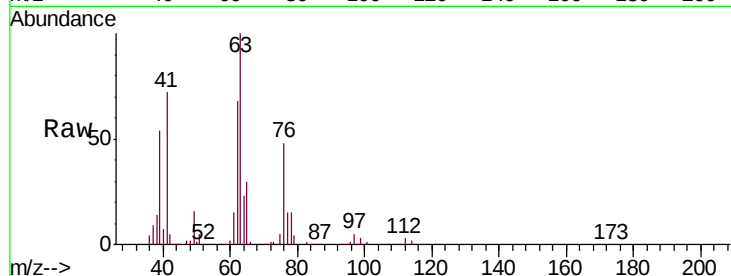
Tgt Ion: 63 Resp: 817034

Ion Ratio Lower Upper

63 100

41 72.1 61.5 92.3

62 68.4 56.2 84.4



#40

1,4-Dioxane

Concen: 10.036 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion: 88 Resp: 354222

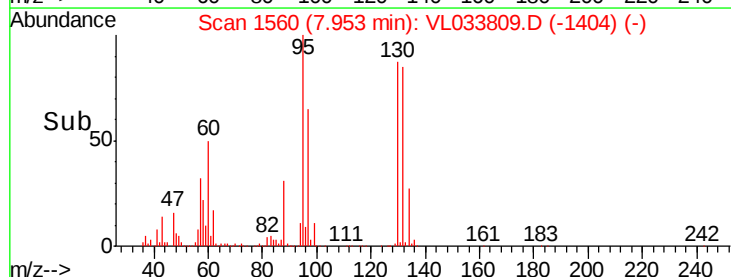
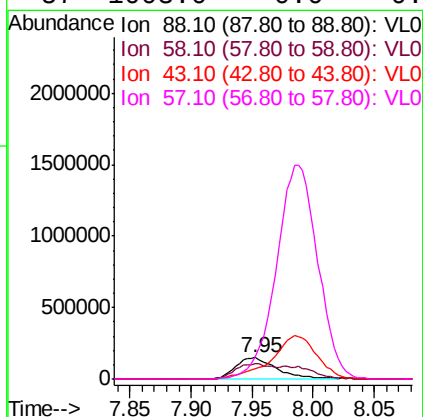
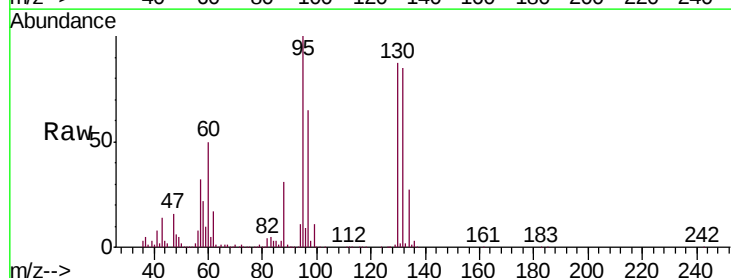
Ion Ratio Lower Upper

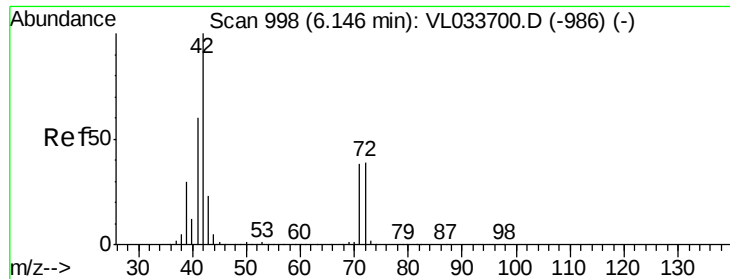
88 100

58 114.8 101.8 152.6

43 222.2 0.0 0.0#

57 1003.0 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.949 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

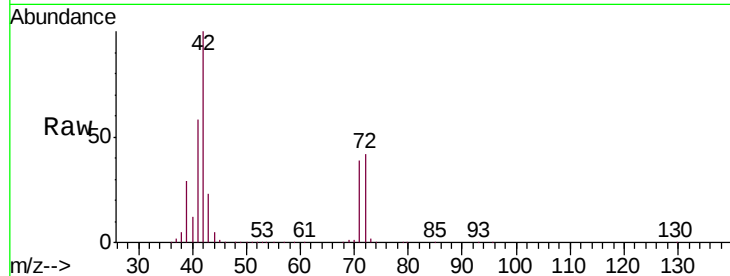
Tgt Ion: 42 Resp: 859591

Ion Ratio Lower Upper

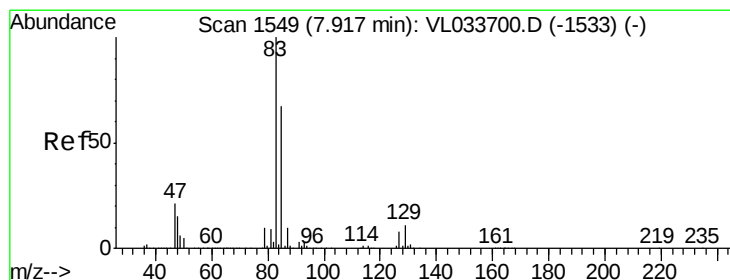
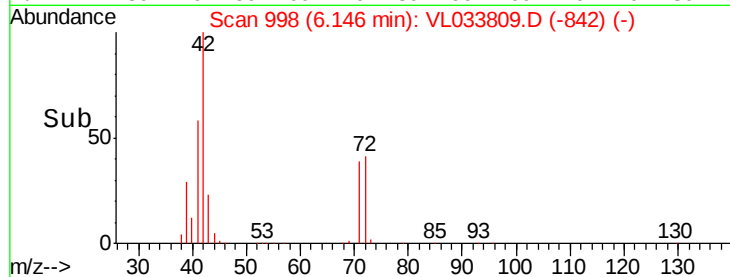
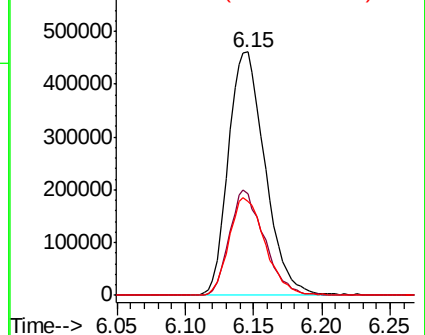
42 100

72 41.4 32.0 48.0

71 39.6 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: 9.162 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

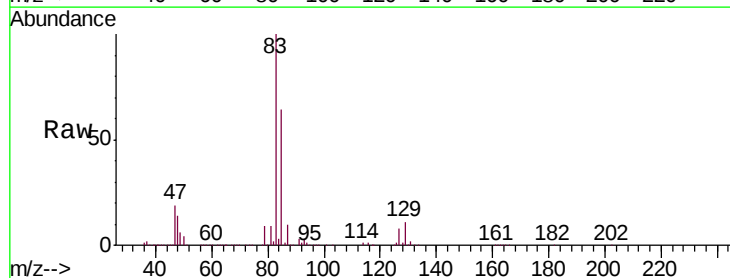
Tgt Ion: 83 Resp: 1830961

Ion Ratio Lower Upper

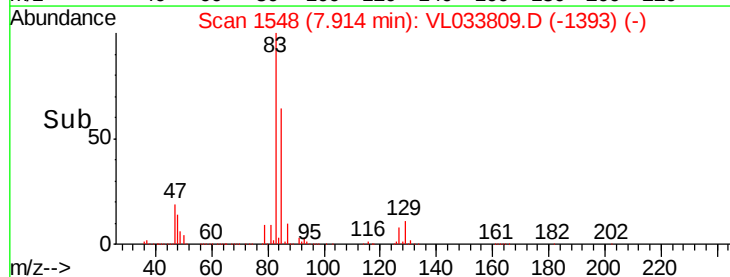
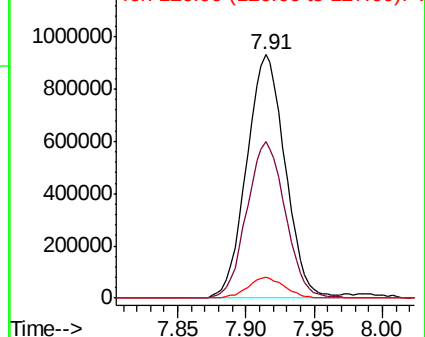
83 100

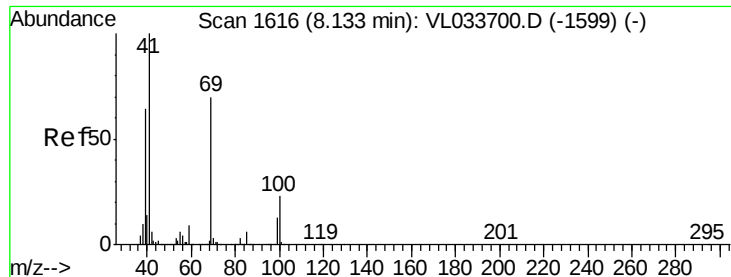
85 64.3 53.3 79.9

127 8.4 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

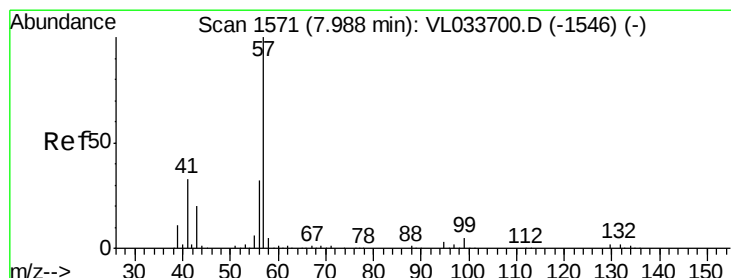
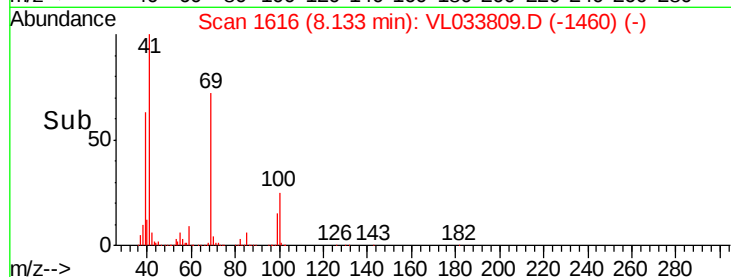
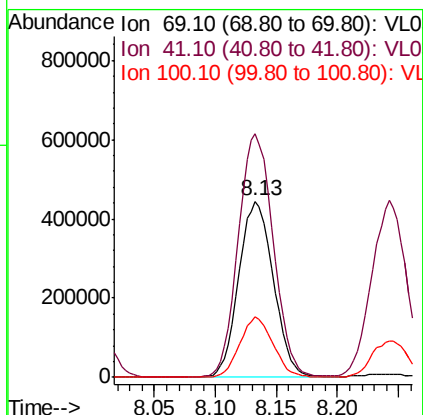
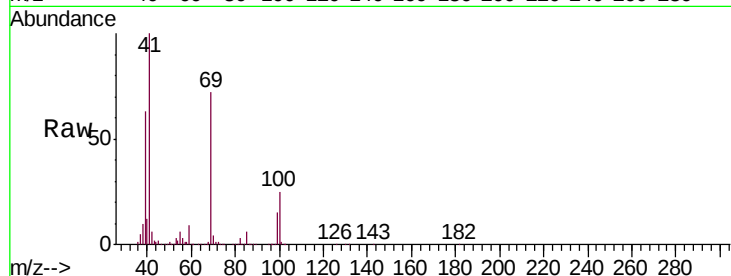




#43
Methyl Methacrylate
Concen: 10.475 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

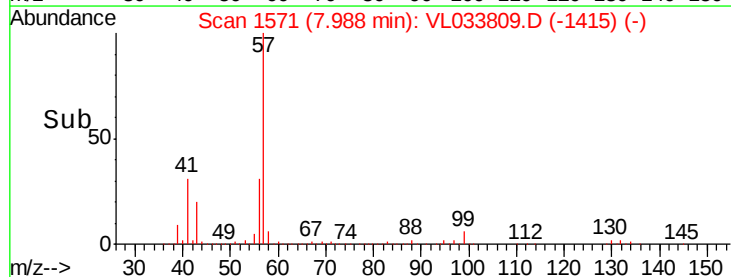
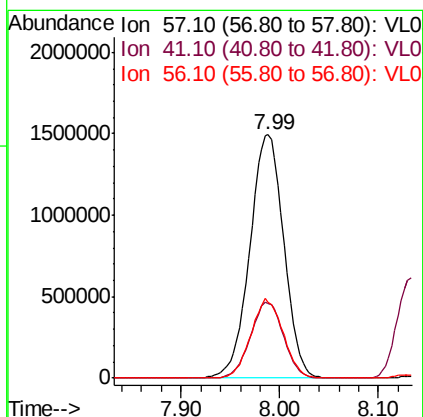
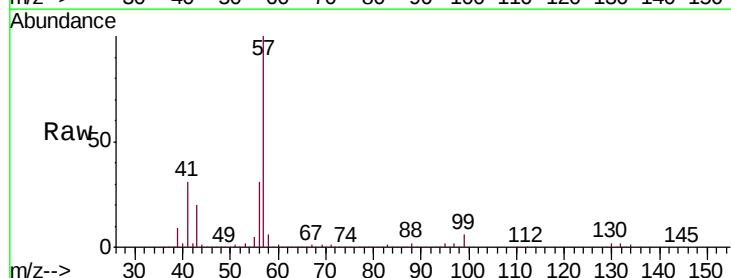
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

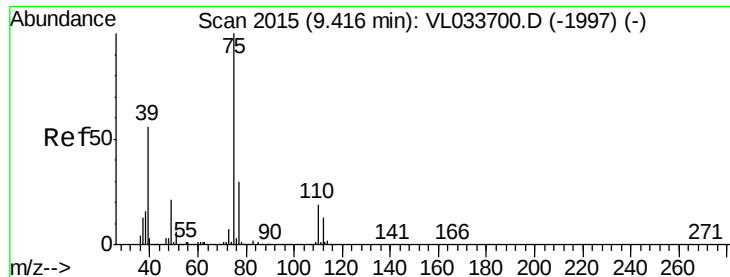
Tgt Ion: 69 Resp: 872368
Ion Ratio Lower Upper
69 100
41 139.8 116.3 174.5
100 32.7 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 57 Resp: 3546574
Ion Ratio Lower Upper
57 100
41 30.3 25.4 38.0
56 30.9 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.619 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

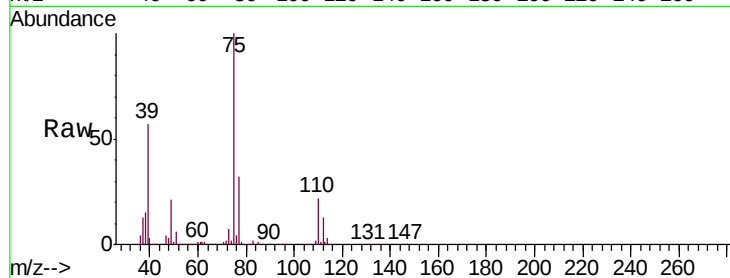
VSTDCCC010EC

Tgt Ion: 75 Resp: 1121197

Ion Ratio Lower Upper

75 100

77 32.3 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

500000

400000

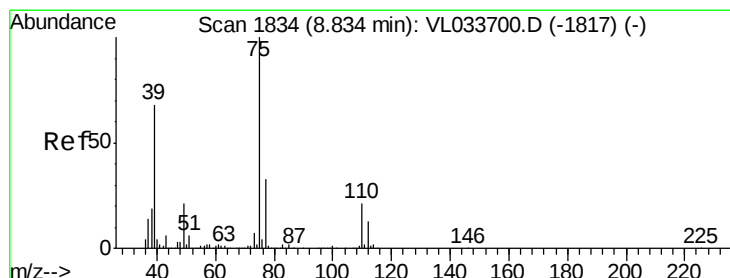
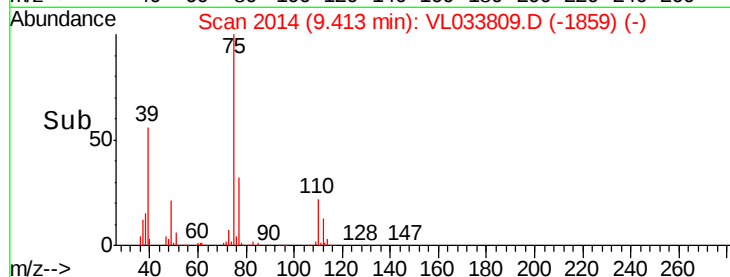
300000

200000

100000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 10.361 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

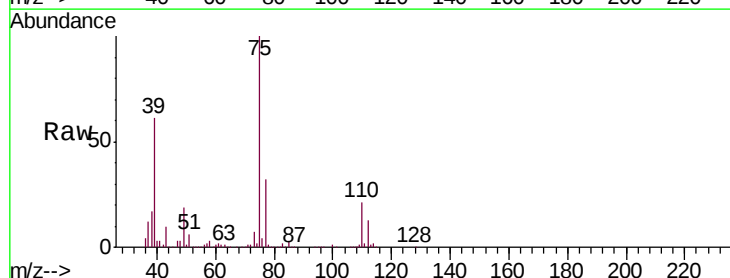
Tgt Ion: 75 Resp: 1280969

Ion Ratio Lower Upper

75 100

39 61.3 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

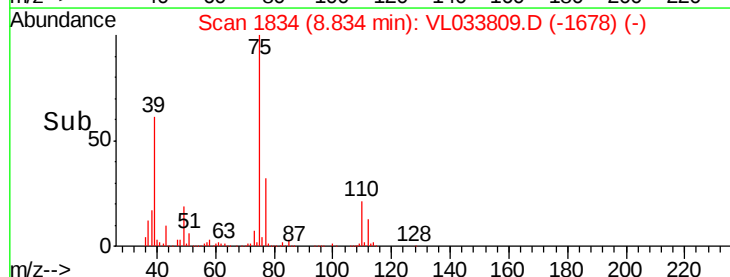
600000

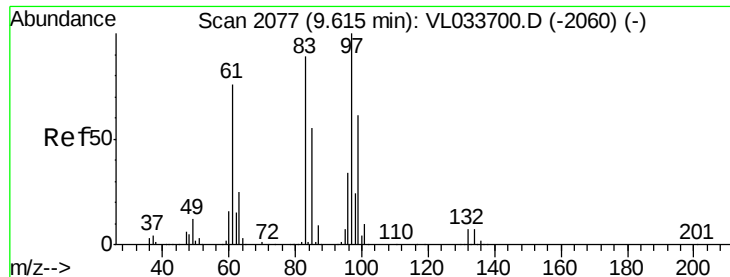
400000

200000

0

Time--> 8.75 8.80 8.85 8.90

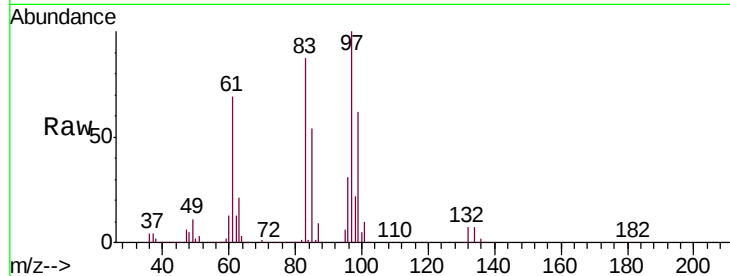




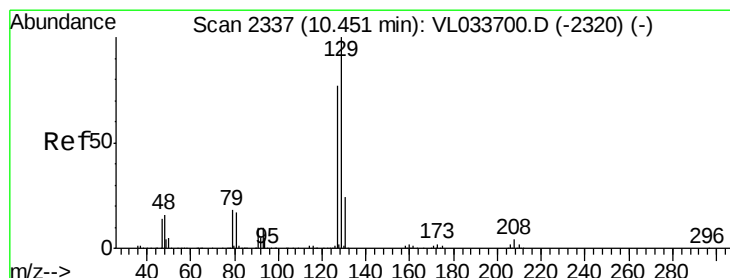
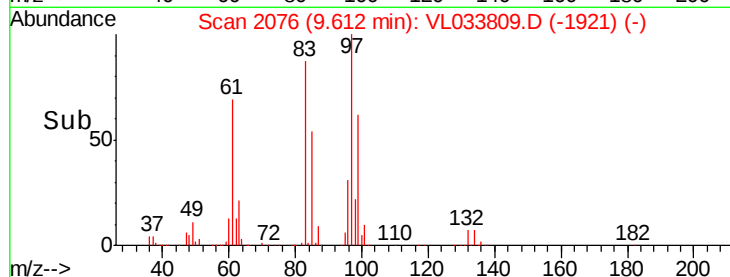
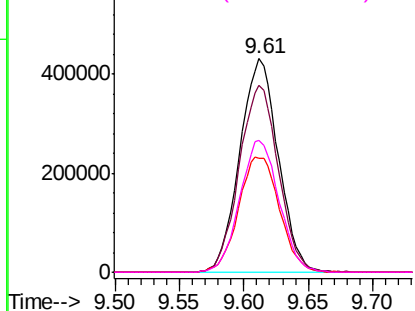
#47
 1,1,2-Trichloroethane
 Concen: 9.375 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 97 Resp: 898592
 Ion Ratio Lower Upper
 97 100
 83 87.3 70.8 106.2
 85 53.5 43.7 65.5
 99 61.8 48.7 73.1

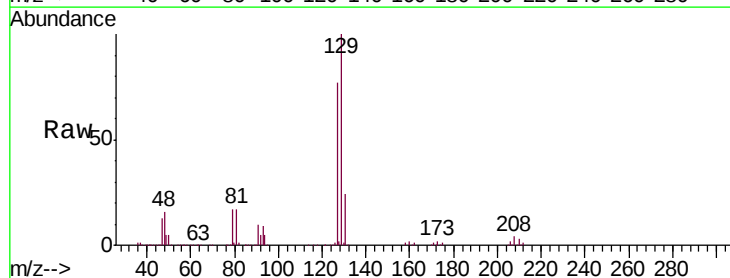


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

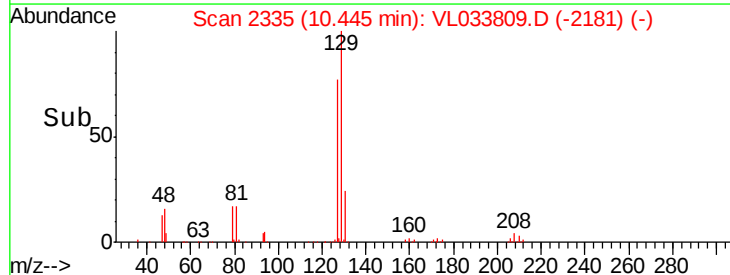
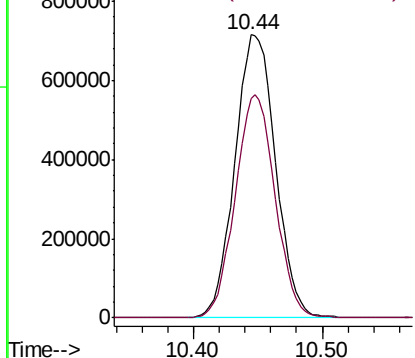


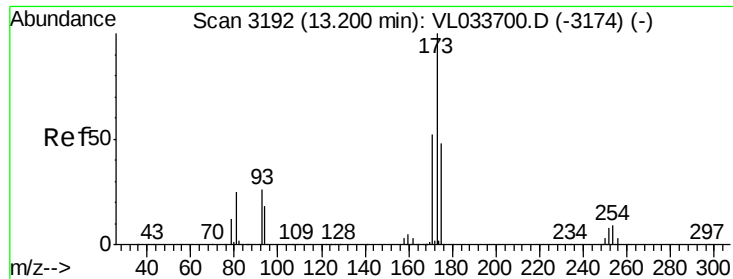
#48
 Dibromochloromethane
 Concen: 9.455 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 129 Resp: 1570297
 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: 10.235 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

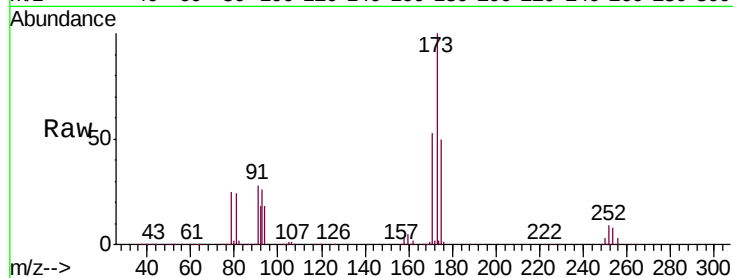
Tgt Ion:173 Resp: 1430169

Ion Ratio Lower Upper

173 100

175 49.4 38.6 58.0

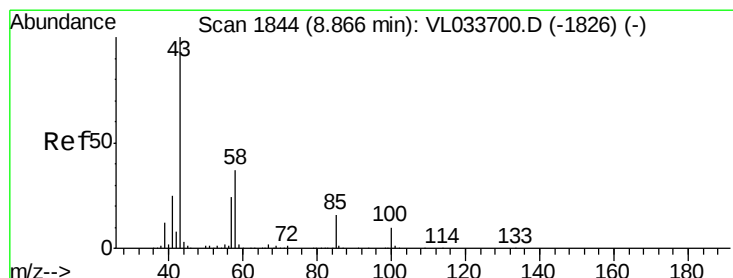
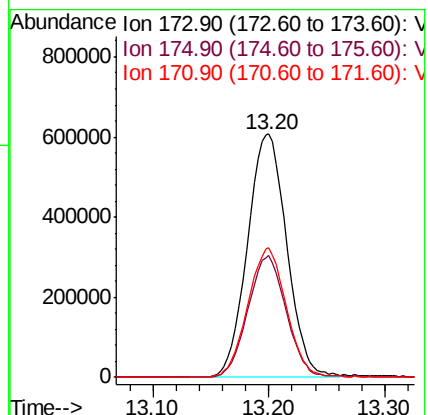
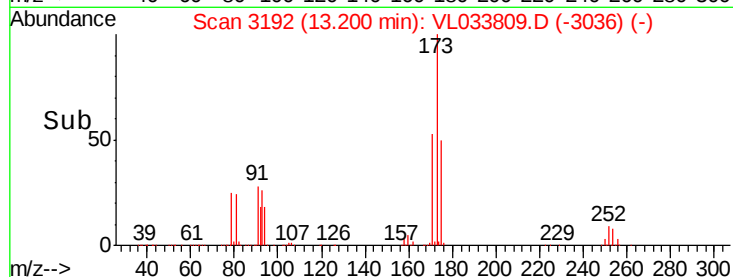
171 52.7 41.5 62.3



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: 9.256 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033809.D

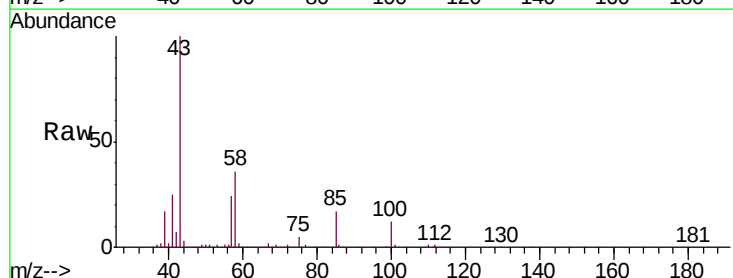
Acq: 28 May 2019 17:42

Tgt Ion: 43 Resp: 2195358

Ion Ratio Lower Upper

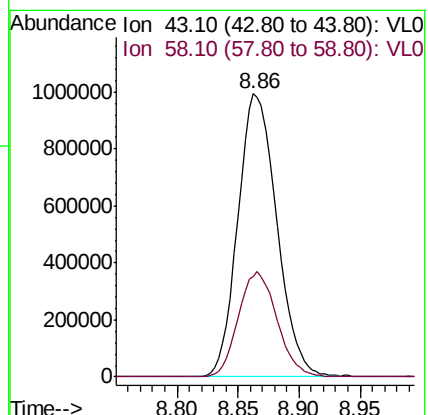
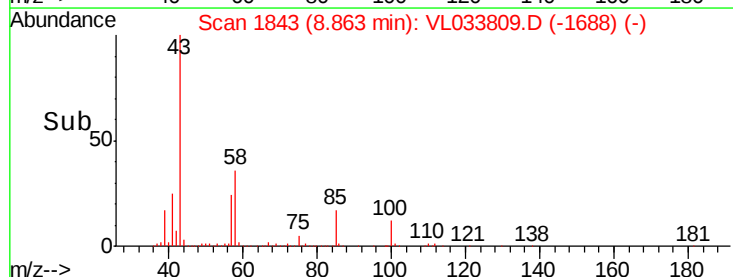
43 100

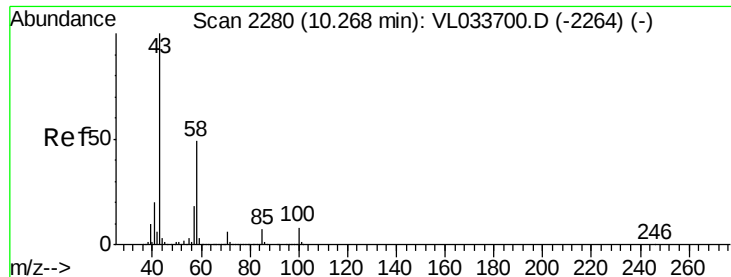
58 36.8 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

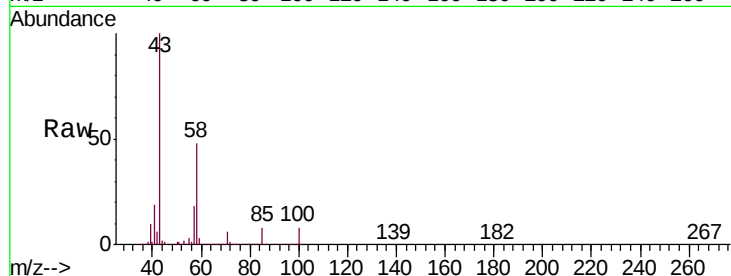




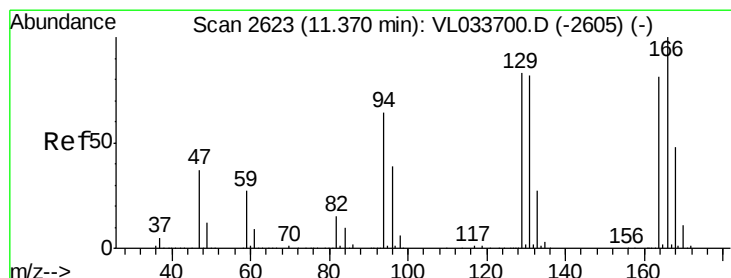
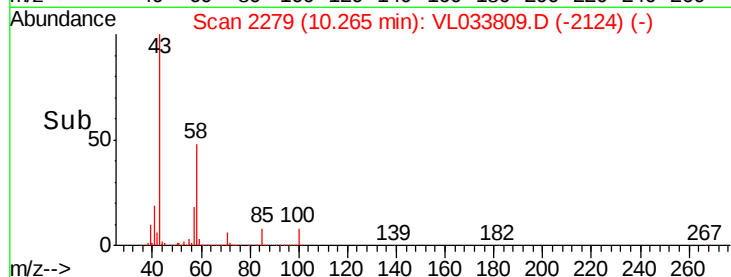
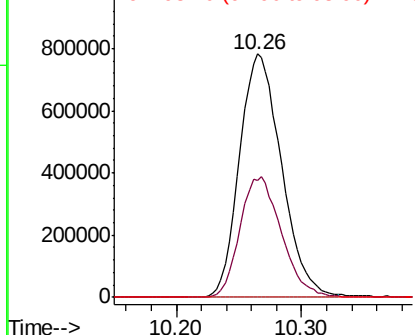
#51
2-Hexanone
Concen: 9.838 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. -0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 1821069
Ion Ratio Lower Upper
43 100
58 49.2 38.7 58.1
98 0.2 0.2 0.4#

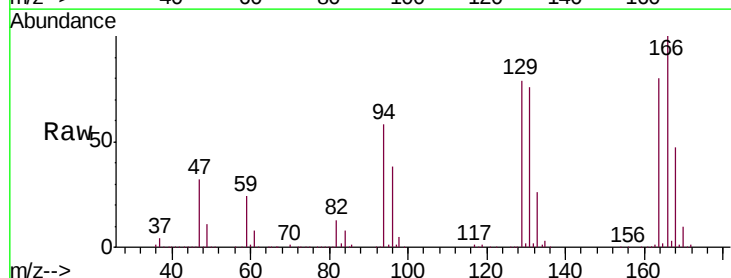


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

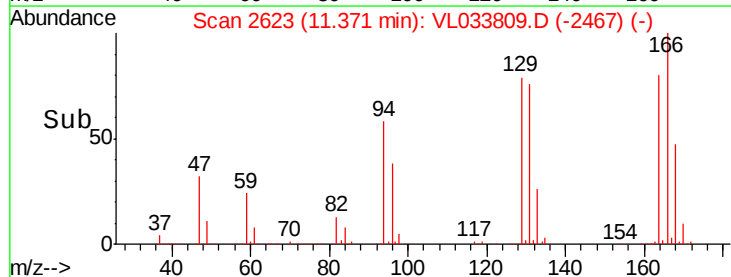
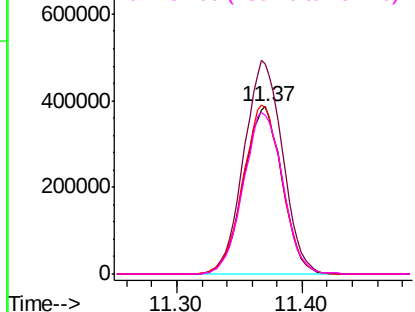


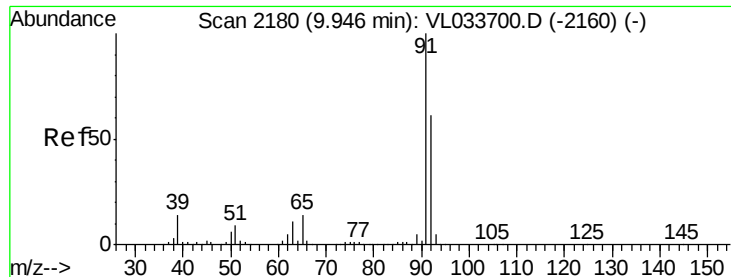
#52
Tetrachloroethene
Concen: 10.392 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 164 Resp: 826679
Ion Ratio Lower Upper
164 100
166 125.4 98.9 148.3
129 99.1 81.8 122.6
131 95.1 81.1 121.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.433 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

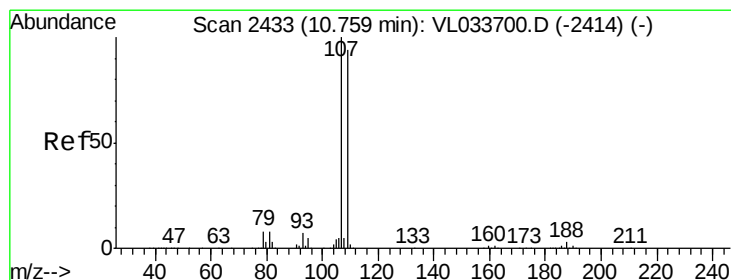
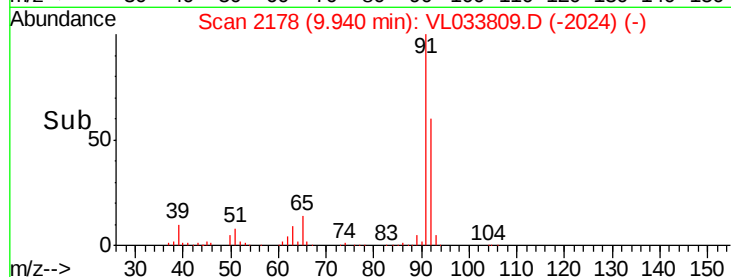
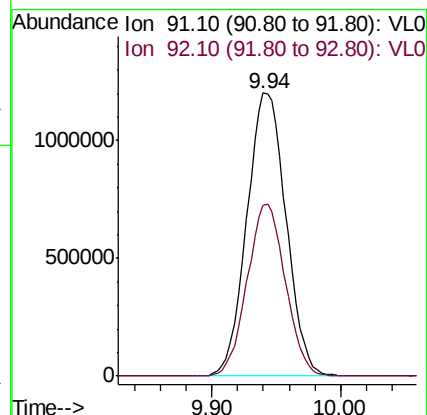
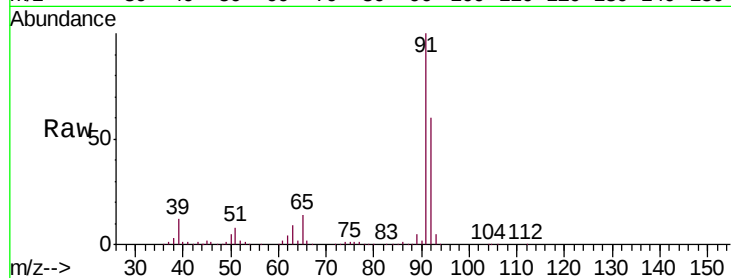
VSTDCCC010EC

Tgt Ion: 91 Resp: 2546624

Ion Ratio Lower Upper

91 100

92 59.5 47.6 71.4



#54

1,2-Dibromoethane

Concen: 9.559 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033809.D

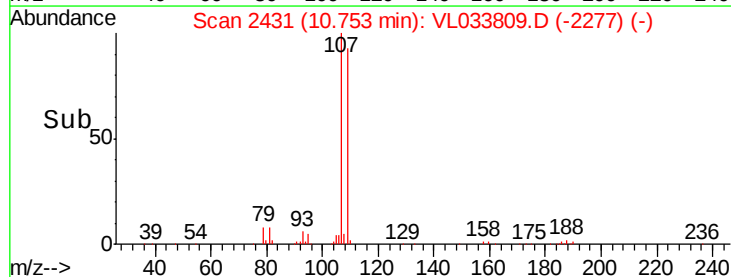
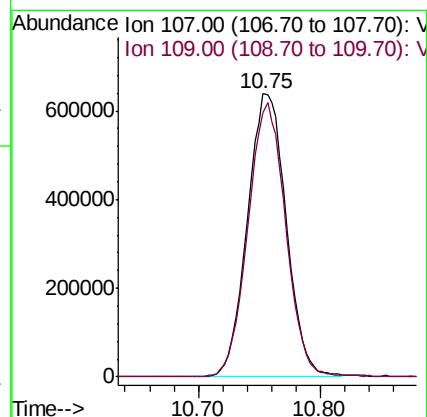
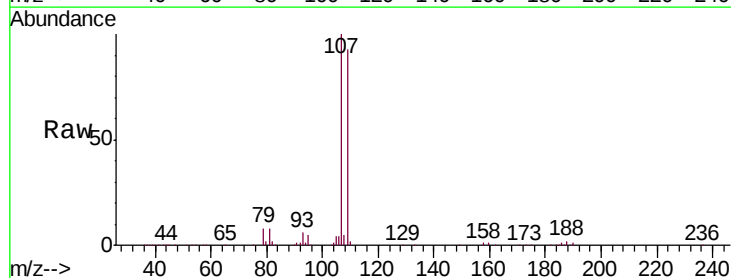
Acq: 28 May 2019 17:42

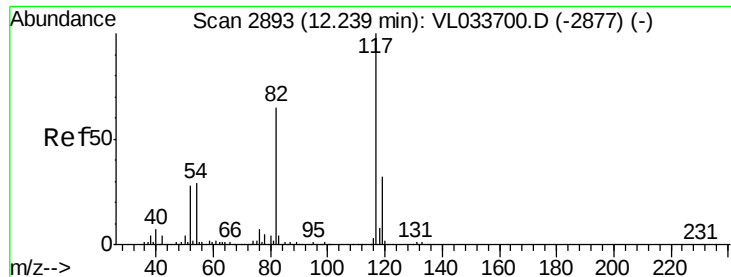
Tgt Ion: 107 Resp: 1398260

Ion Ratio Lower Upper

107 100

109 93.1 75.2 112.8

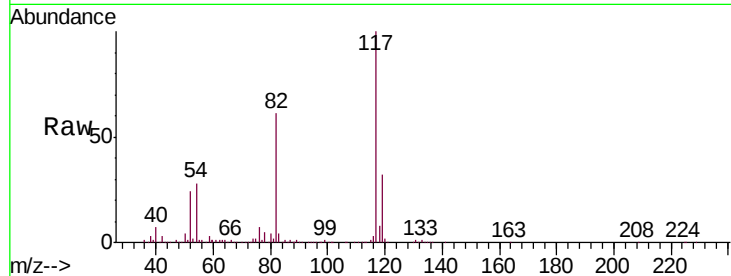




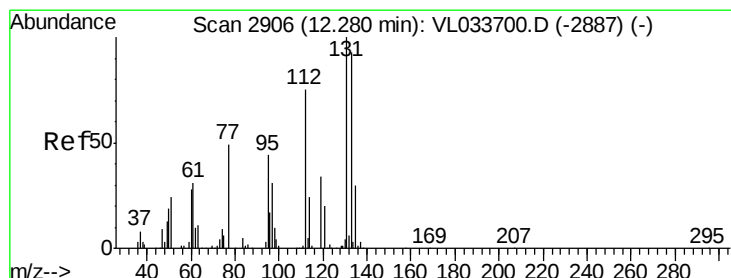
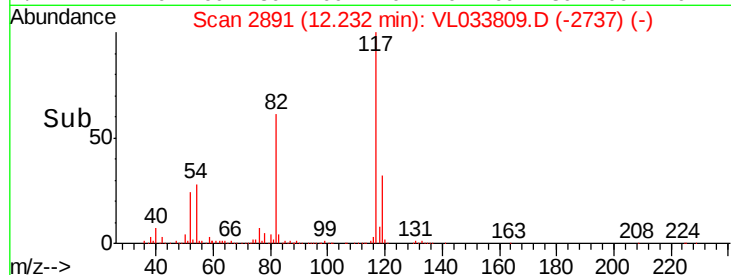
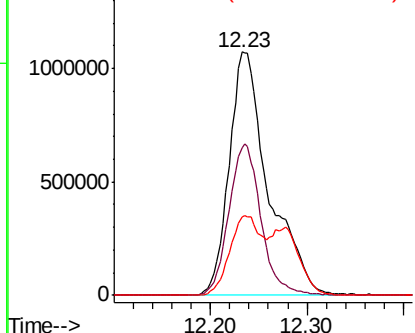
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:117 Resp: 3049118
Ion Ratio Lower Upper
117 100
82 50.8 49.4 74.0
119 46.9 24.9 37.3#

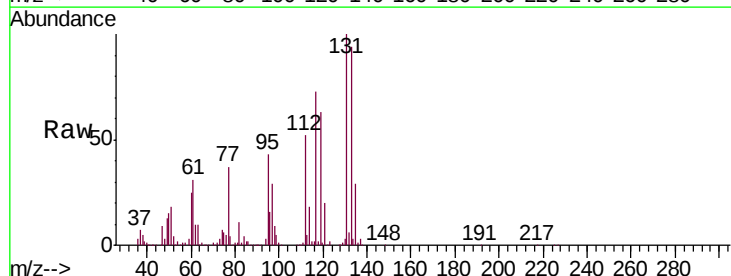


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

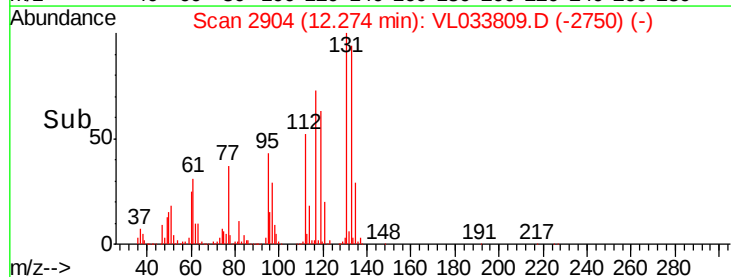
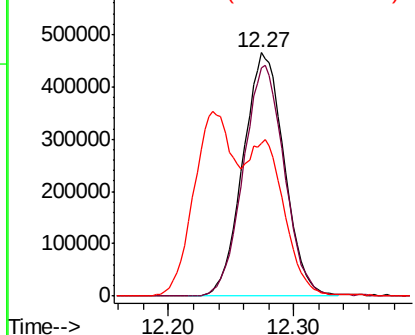


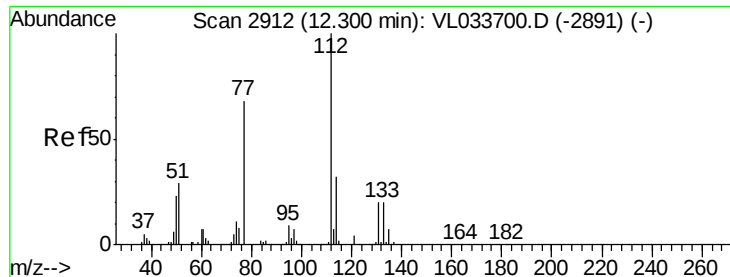
#56
1,1,1,2-Tetrachloroethane
Concen: 7.529 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion:131 Resp: 1062237
Ion Ratio Lower Upper
131 100
133 94.8 76.6 114.8
119 58.6 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

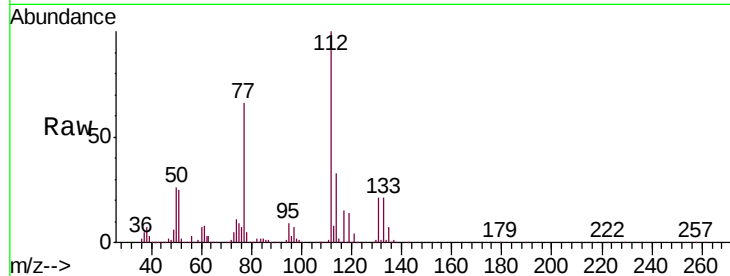




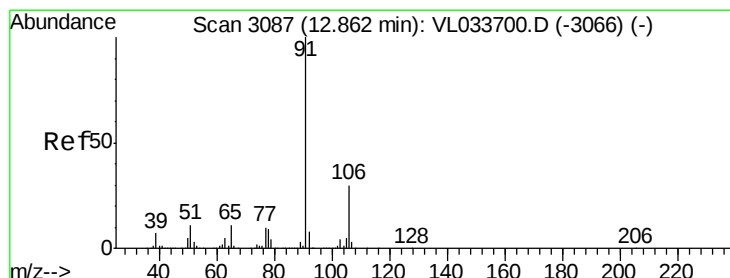
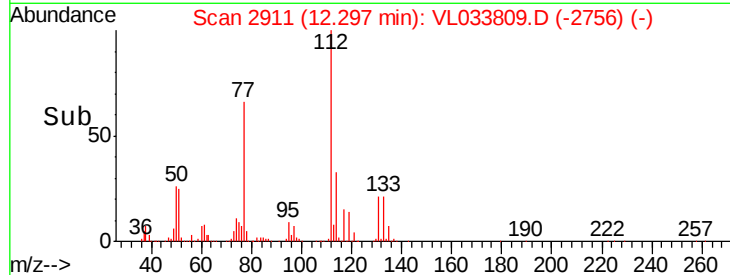
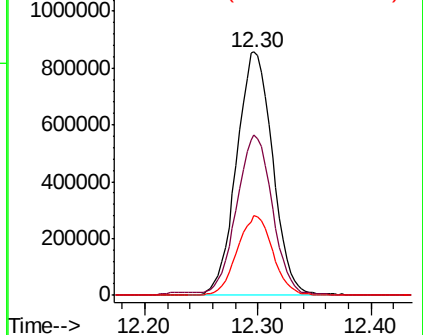
#57
Chlorobenzene
Concen: 7.605 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 112 Resp: 1908771
Ion Ratio Lower Upper
112 100
77 65.4 55.4 83.0
114 32.7 29.3 35.8

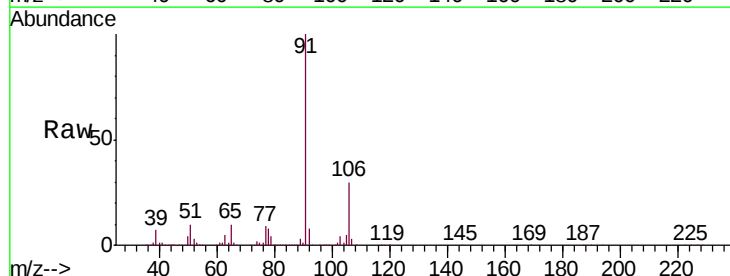


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

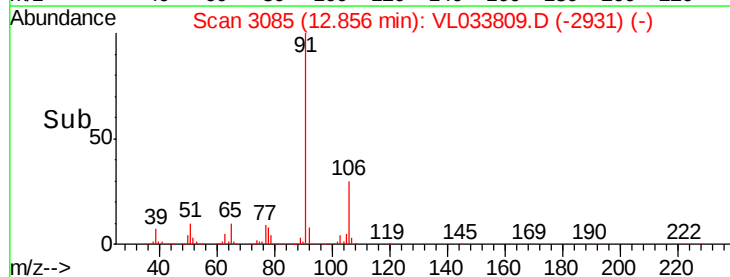
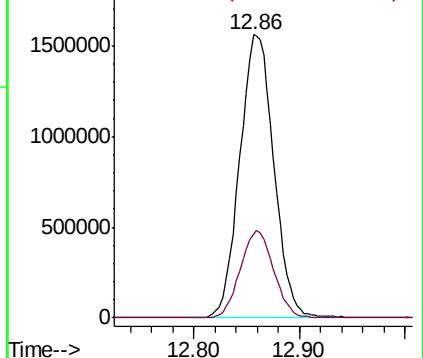


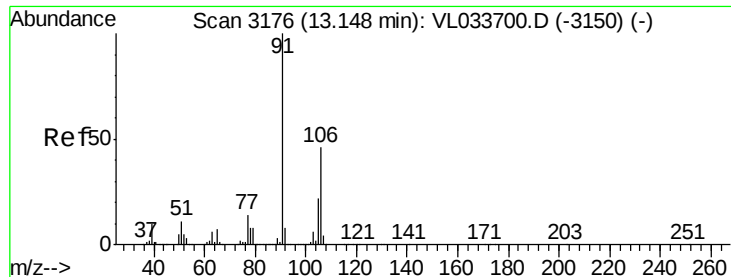
#58
Ethyl Benzene
Concen: 8.694 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 91 Resp: 3510540
Ion Ratio Lower Upper
91 100
106 29.7 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

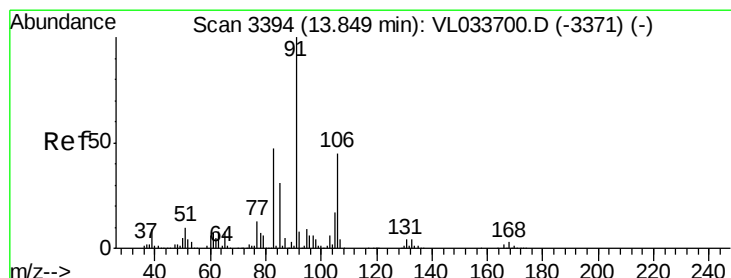
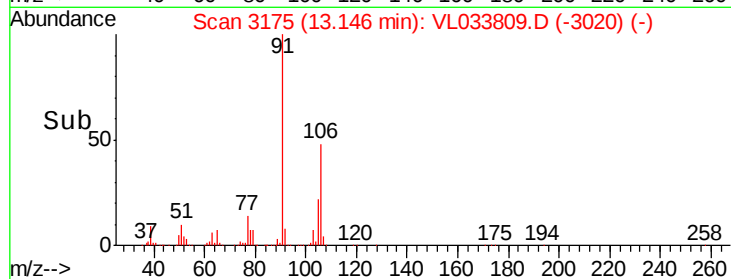
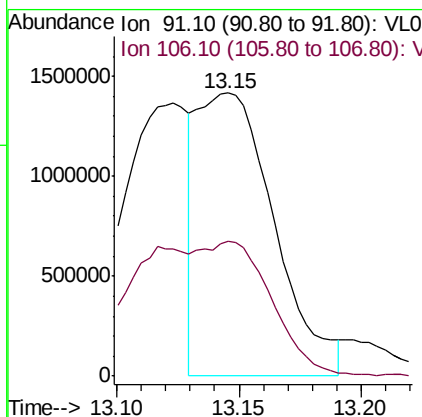
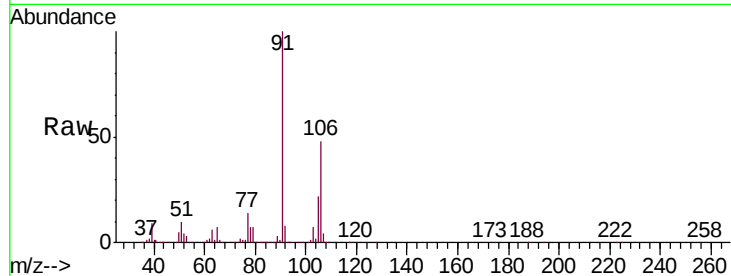




#59
m/p-Xylene
Concen: 8.707 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

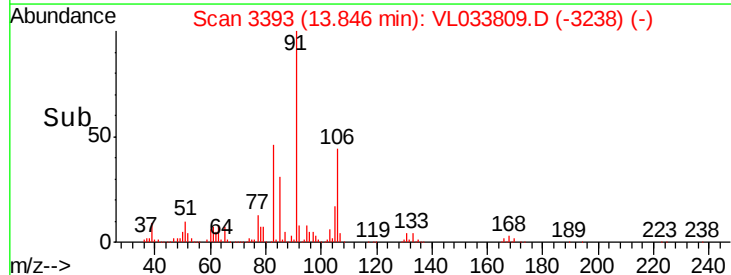
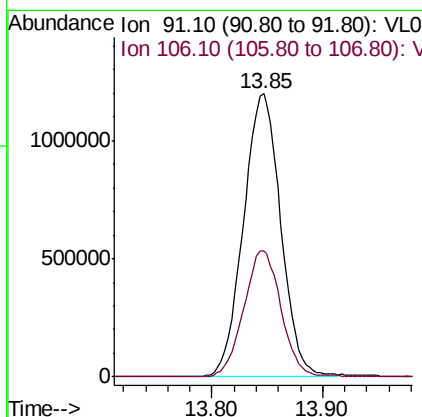
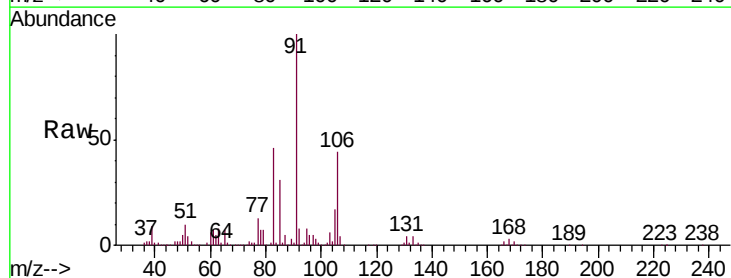
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

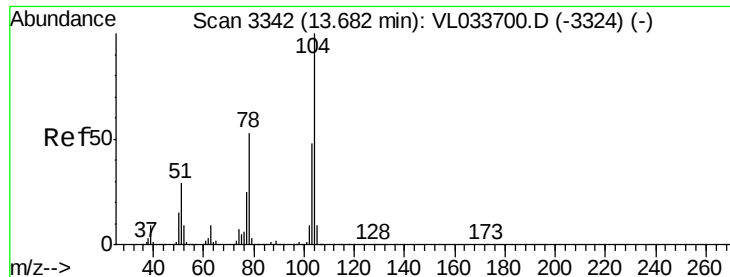
Tgt Ion: 91 Resp: 3073311
Ion Ratio Lower Upper
91 100
106 86.5 35.8 53.6#



#60
o-Xylene
Concen: 7.876 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 91 Resp: 2802437
Ion Ratio Lower Upper
91 100
106 45.0 21.6 64.8





#61

Styrene

Concen: 9.214 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

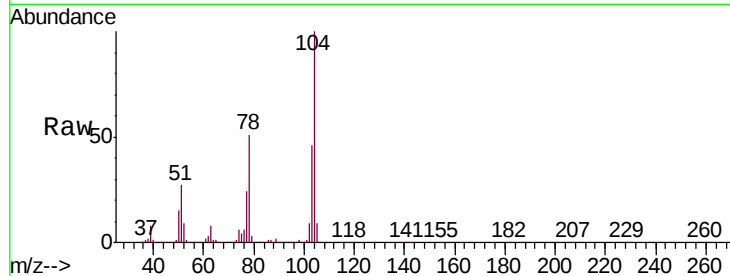
Tgt Ion:104 Resp: 2207321

Ion Ratio Lower Upper

104 100

78 50.3 42.6 64.0

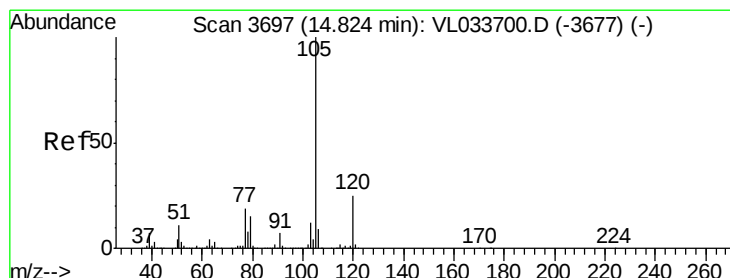
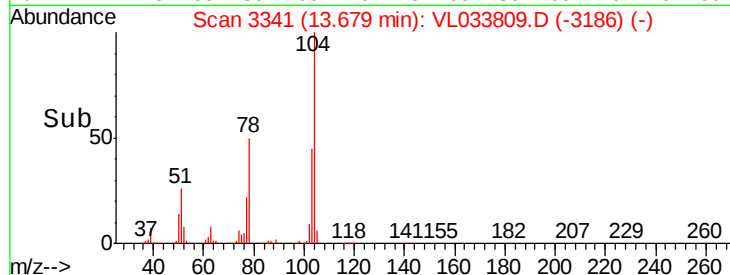
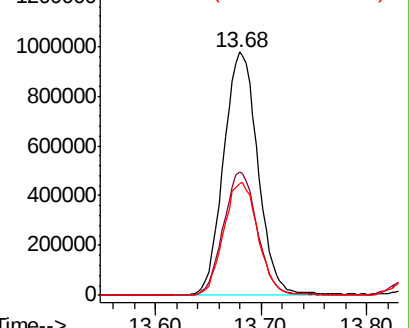
103 47.0 37.8 56.6



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: 7.947 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033809.D

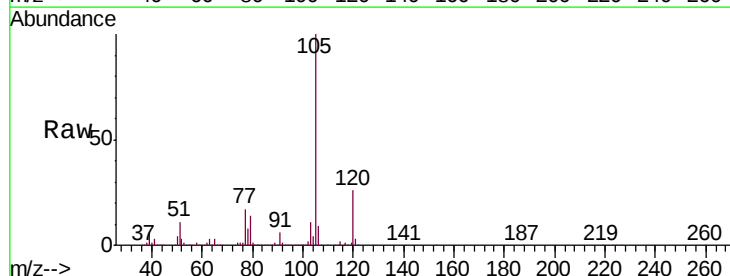
Acq: 28 May 2019 17:42

Tgt Ion:105 Resp: 3807992

Ion Ratio Lower Upper

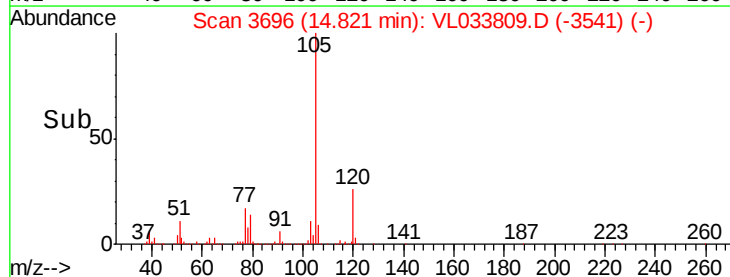
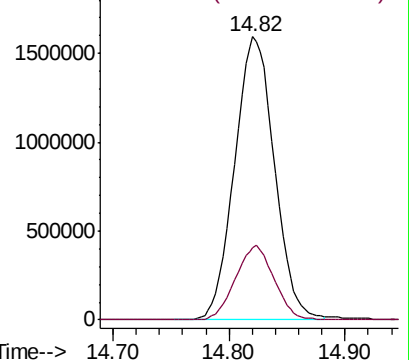
105 100

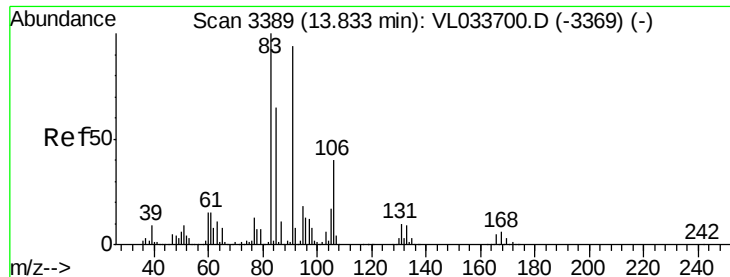
120 25.8 20.1 30.1



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: 7.517 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

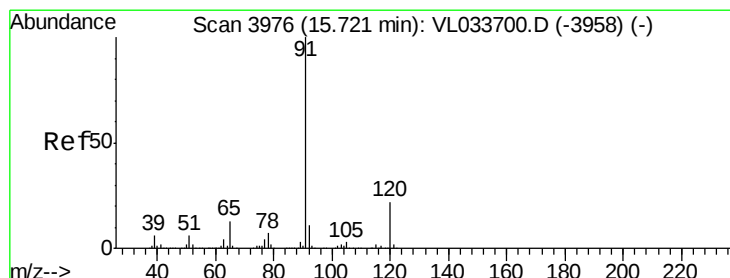
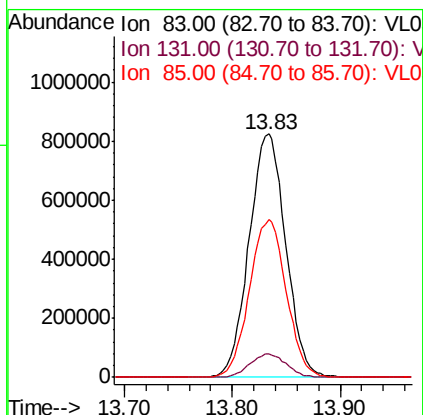
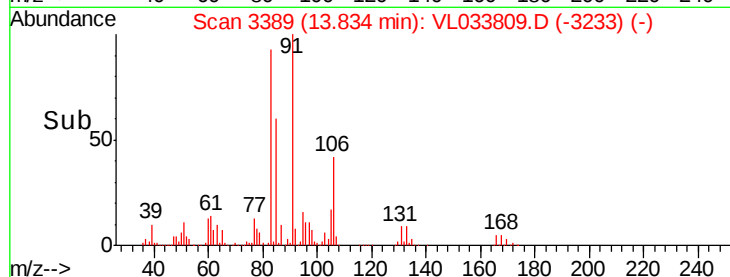
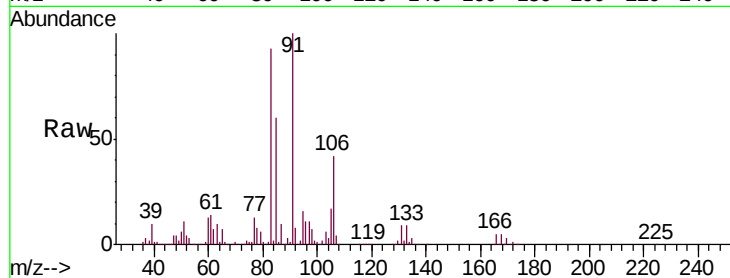
Tgt Ion: 83 Resp: 1944932

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

85 65.4 32.3 96.9



#64

n-propylbenzene

Concen: 8.089 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033809.D

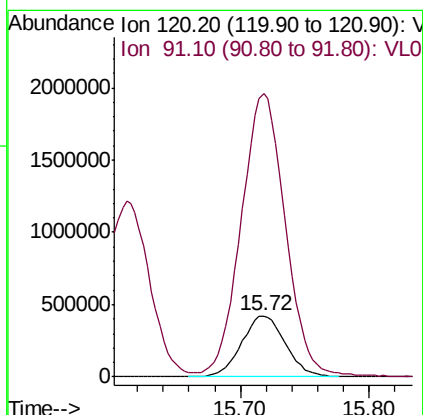
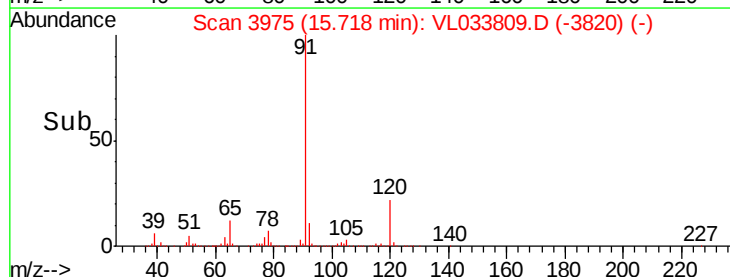
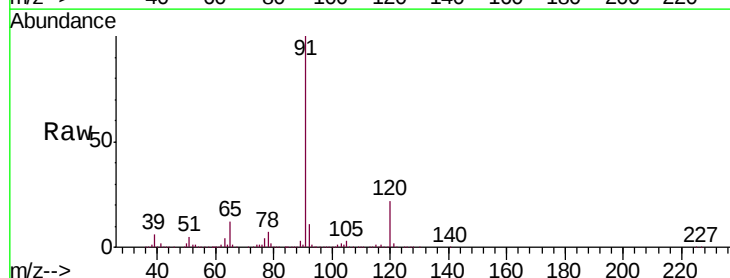
Acq: 28 May 2019 17:42

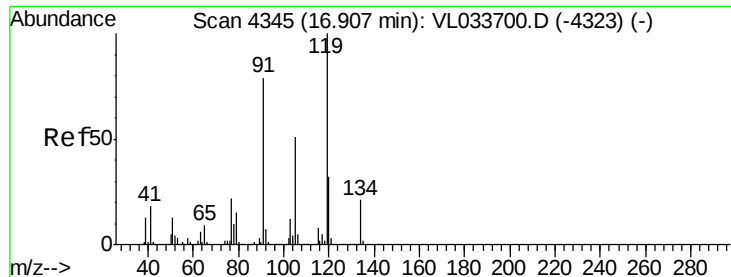
Tgt Ion: 120 Resp: 1002612

Ion Ratio Lower Upper

120 100

91 468.1 379.1 568.7





#65

tert-Butylbenzene

Concen: 7.879 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

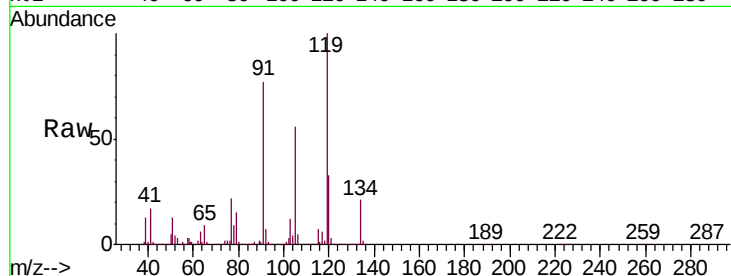
Tgt Ion: 119 Resp: 3447134

Ion Ratio Lower Upper

119 100

91 79.6 65.3 97.9

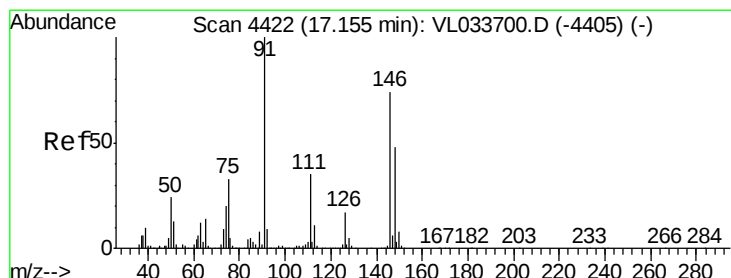
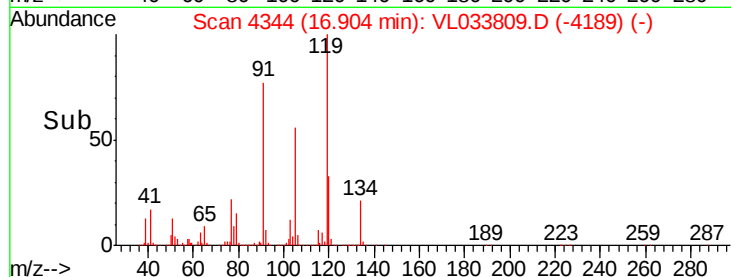
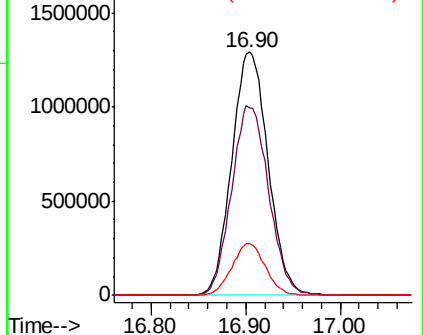
134 19.7 15.7 23.5



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.445 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

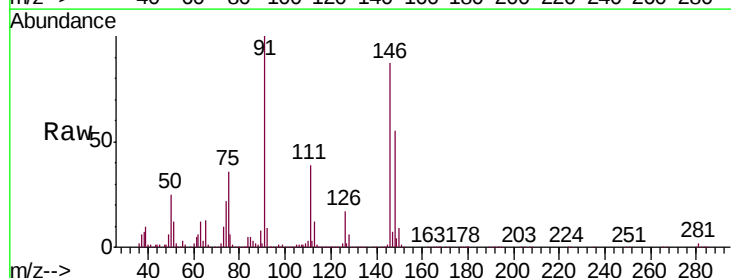
Tgt Ion: 91 Resp: 1759715

Ion Ratio Lower Upper

91 100

126 17.4 13.5 20.3

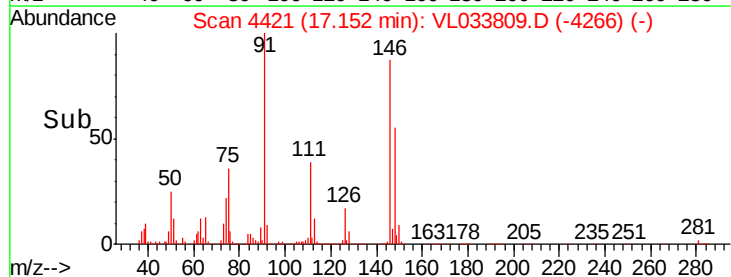
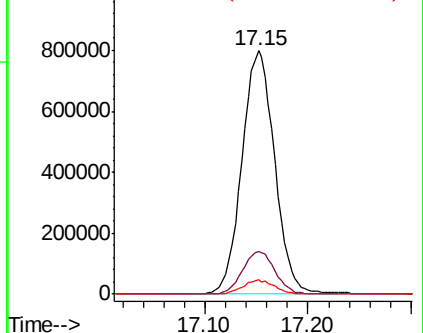
128 5.6 4.3 6.5

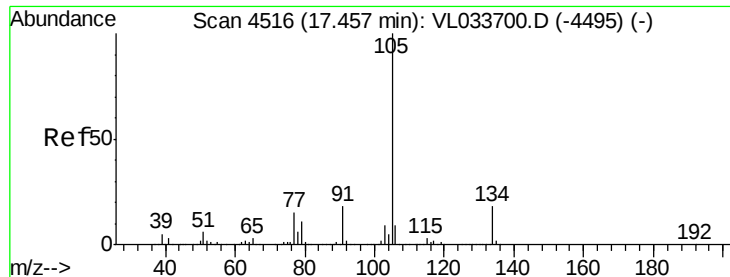


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.934 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

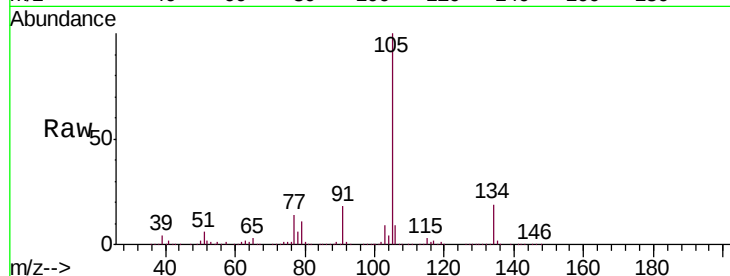
VSTDCCC010EC

Tgt Ion: 105 Resp: 4858593

Ion Ratio Lower Upper

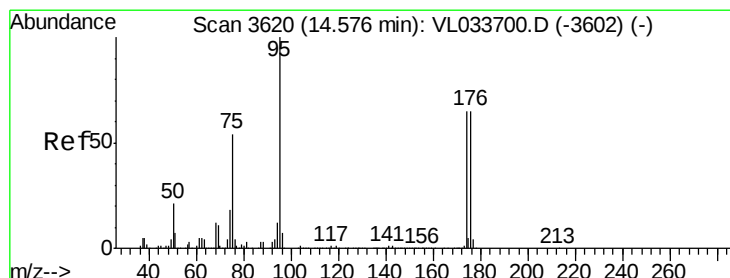
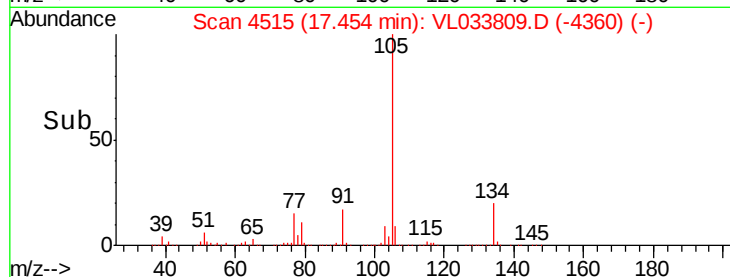
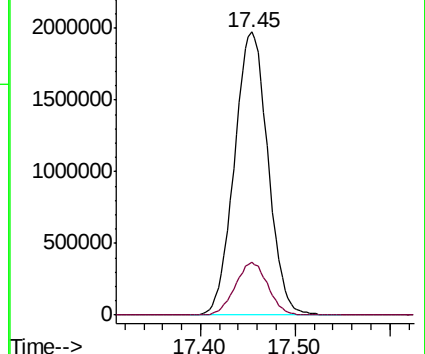
105 100

134 18.3 14.6 22.0



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: 7.700 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

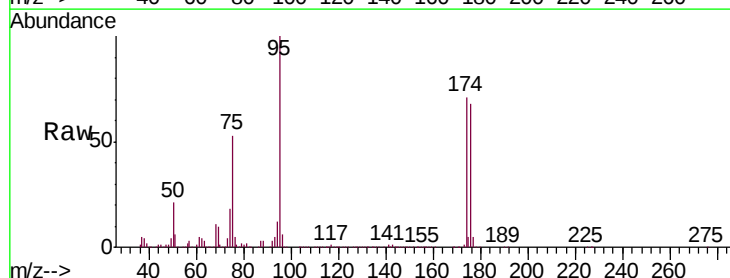
Tgt Ion: 95 Resp: 1903218

Ion Ratio Lower Upper

95 100

174 69.8 53.9 80.9

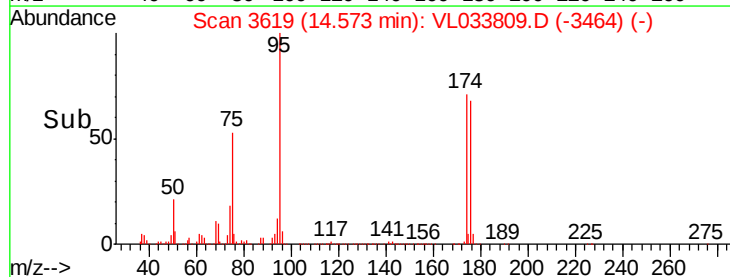
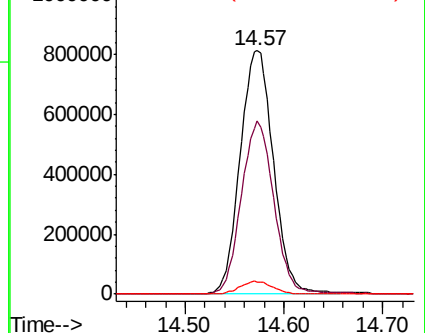
175 5.1 3.8 5.8

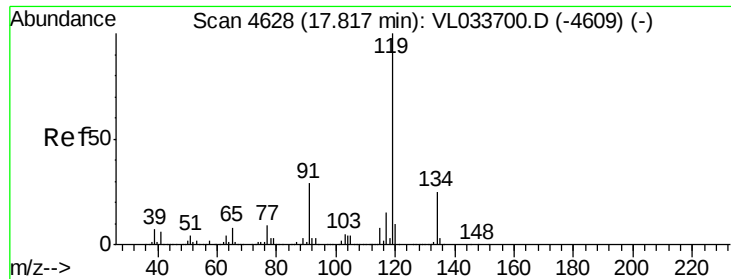


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

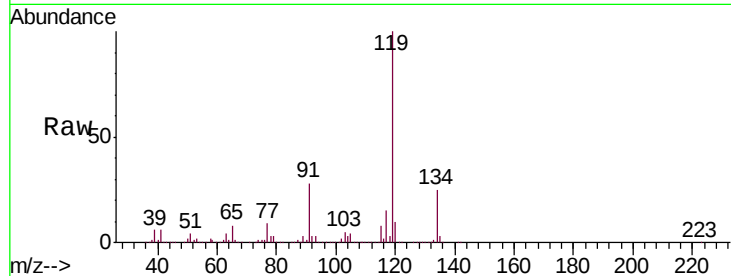




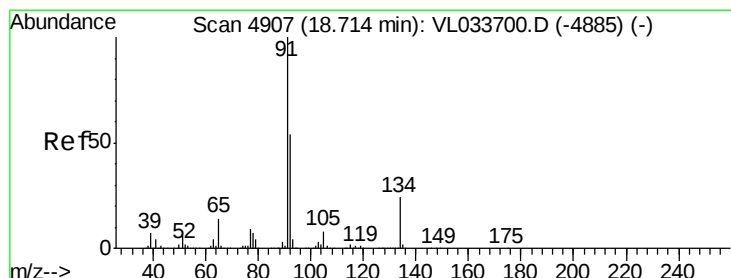
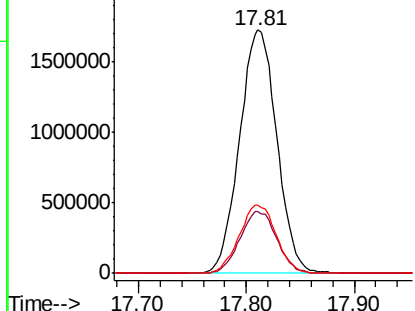
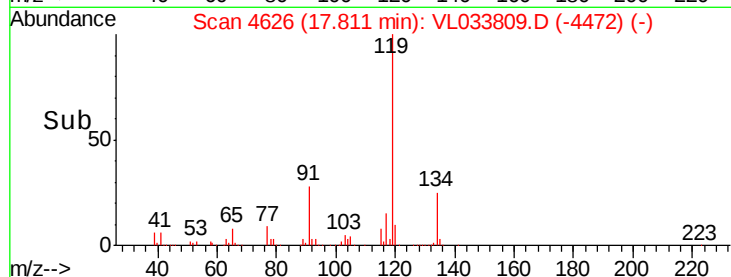
#69
 p-Isopropyltoluene
 Concen: 8.181 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 119 Resp: 4140694
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.3 30.5
 91 27.9 23.1 34.7

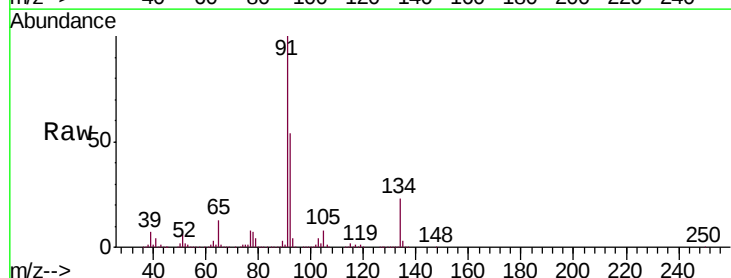


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

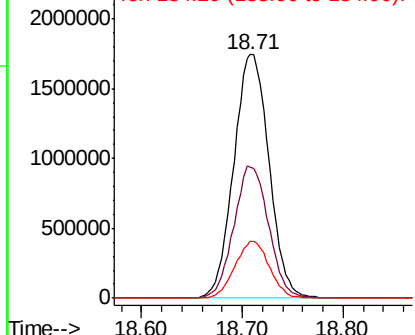
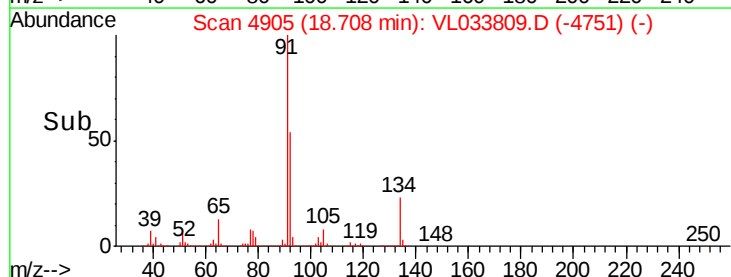


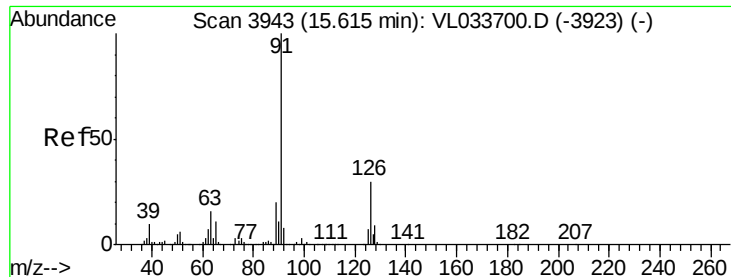
#70
 n-Butylbenzene
 Concen: 7.785 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 91 Resp: 4225252
 Ion Ratio Lower Upper
 91 100
 92 53.4 42.6 63.8
 134 22.8 18.1 27.1



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.050 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

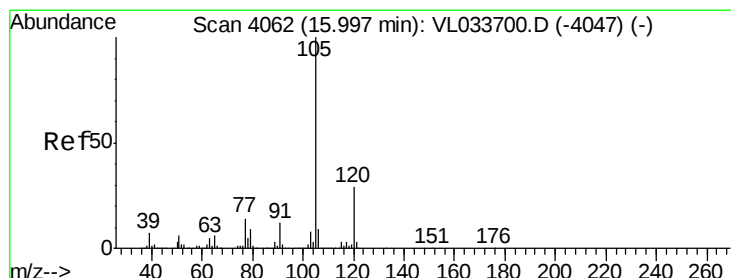
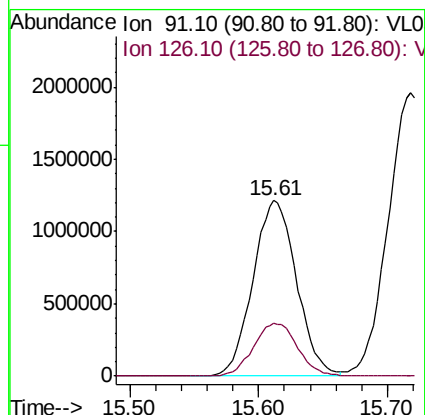
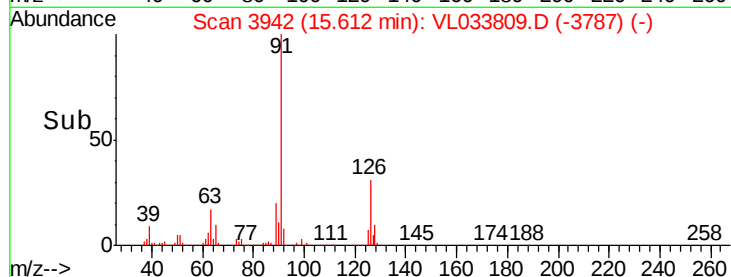
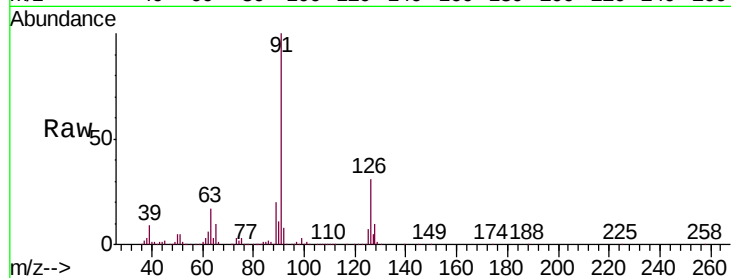
VSTDCCC010EC

Tgt Ion: 91 Resp: 2861728

Ion Ratio Lower Upper

91 100

126 30.9 12.0 47.8



#72

4-Ethyltoluene

Concen: 8.175 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion: 105 Resp: 3325773

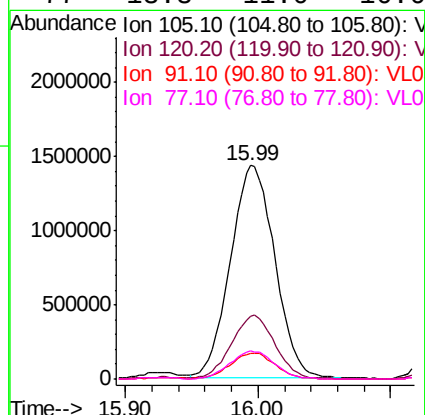
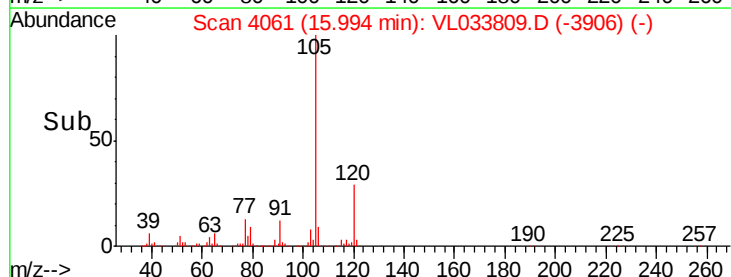
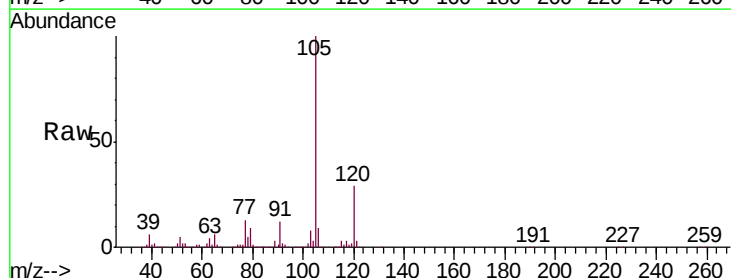
Ion Ratio Lower Upper

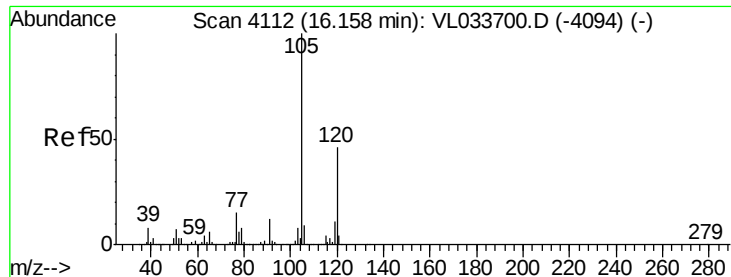
105 100

120 29.7 23.1 34.7

91 12.4 10.4 15.6

77 13.3 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 8.010 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

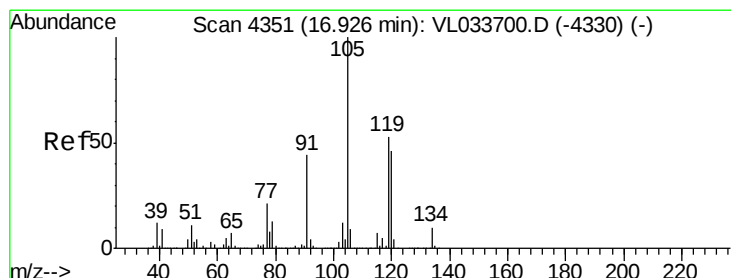
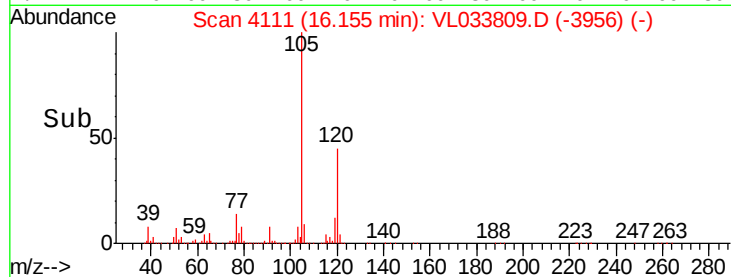
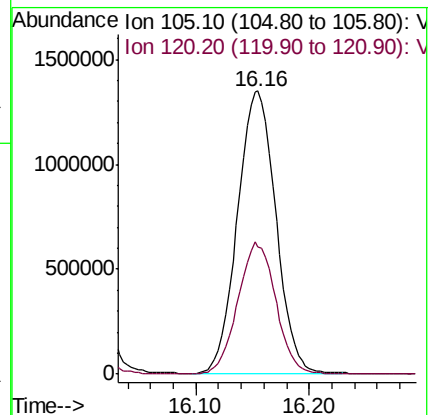
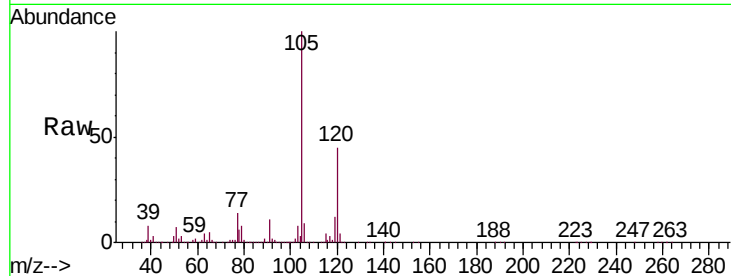
VSTDCCC010EC

Tgt Ion:105 Resp: 3179335

Ion Ratio Lower Upper

105 100

120 45.1 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 7.663 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion:105 Resp: 3310264

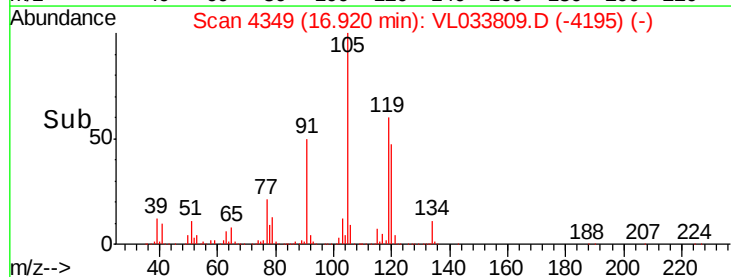
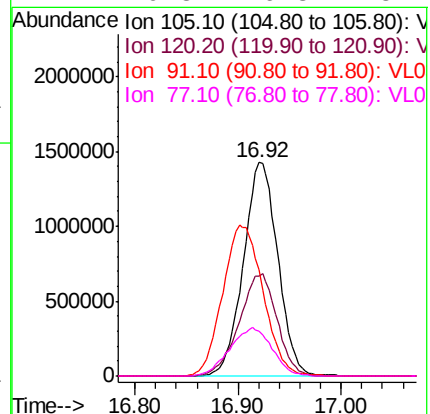
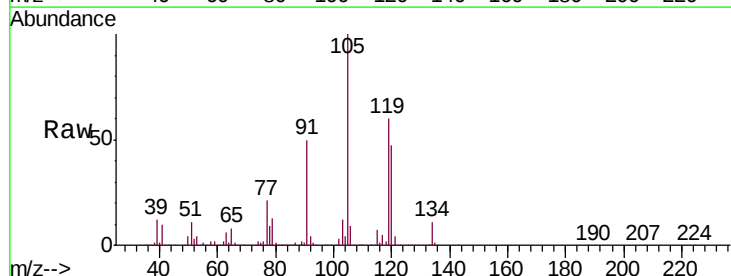
Ion Ratio Lower Upper

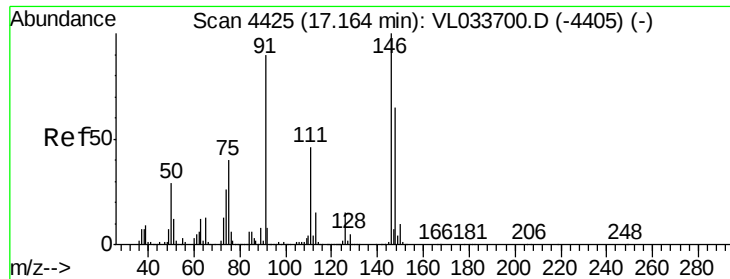
105 100

120 47.0 36.8 55.2

91 49.4 35.4 53.0

77 20.8 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 7.459 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

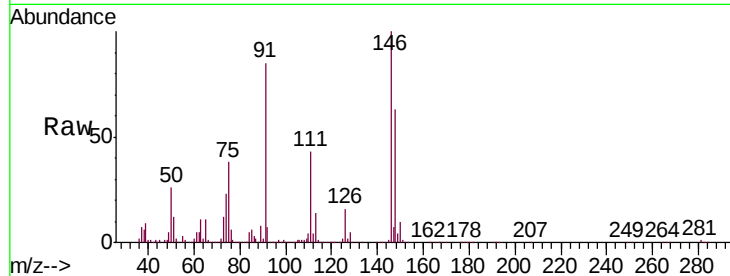
Tgt Ion:146 Resp: 1974483

Ion Ratio Lower Upper

146 100

111 43.9 22.9 68.8

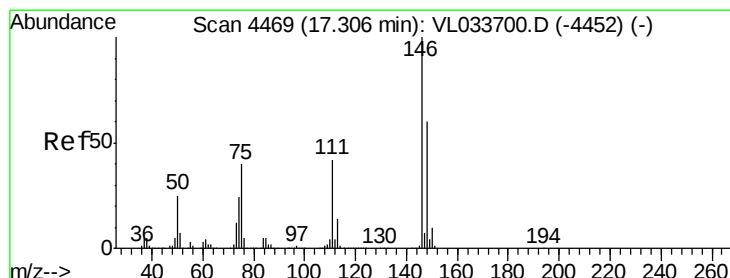
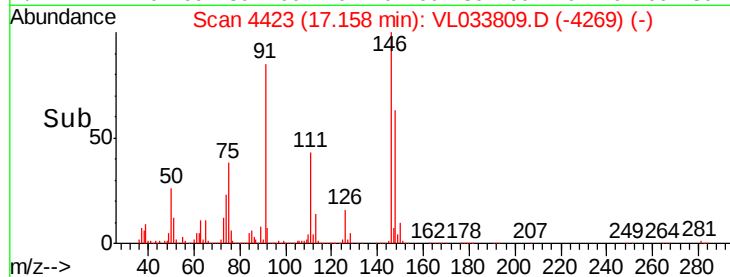
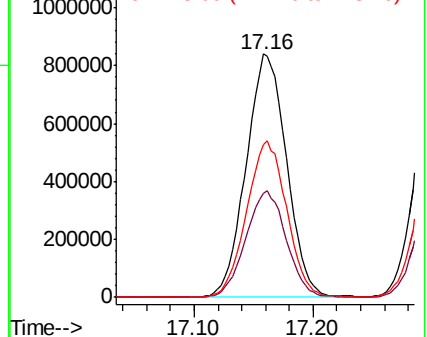
148 63.8 32.0 96.2



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: 7.690 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

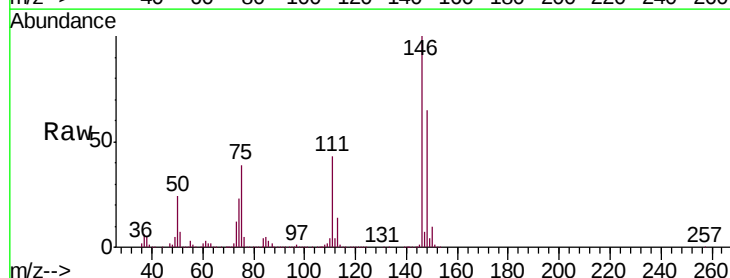
Tgt Ion:146 Resp: 1934856

Ion Ratio Lower Upper

146 100

111 43.1 21.9 65.8

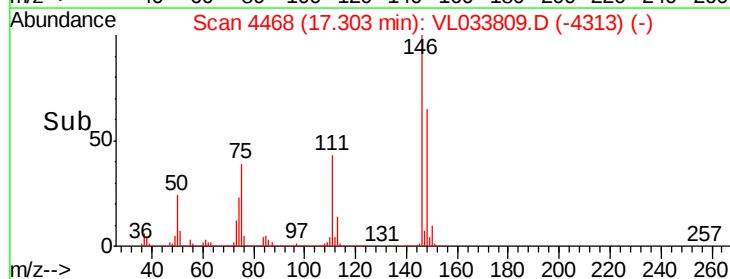
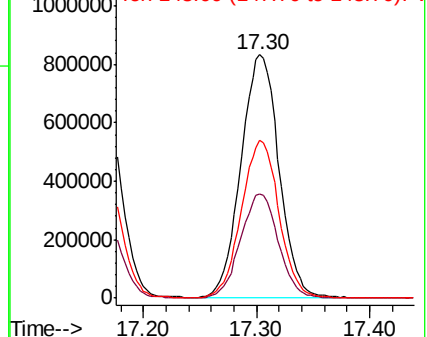
148 64.6 32.1 96.3

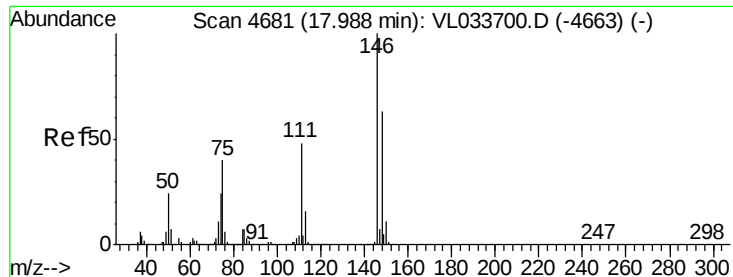


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.720 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

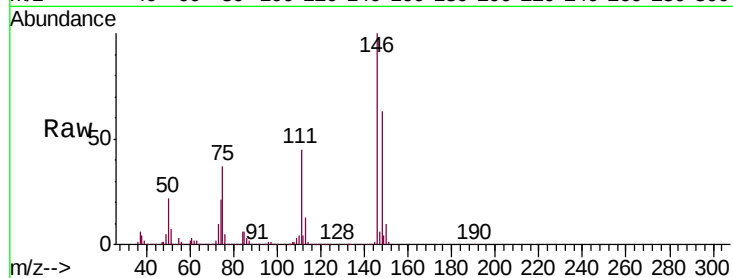
Tgt Ion:146 Resp: 1920173

Ion Ratio Lower Upper

146 100

111 45.8 23.5 70.5

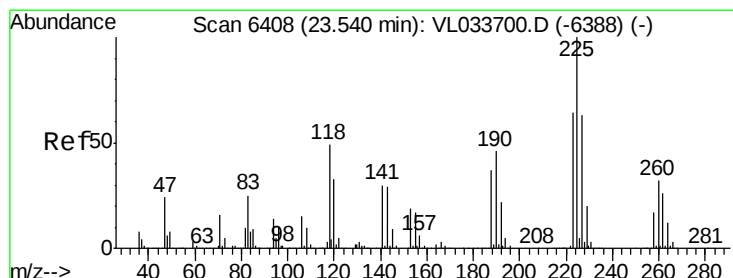
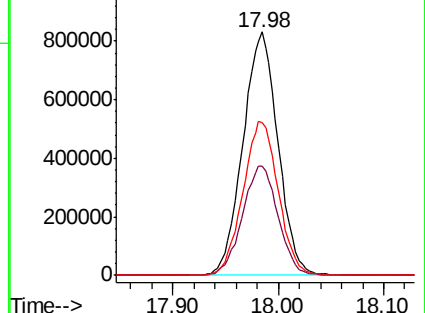
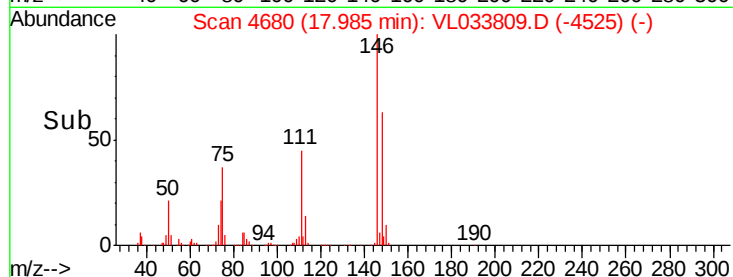
148 63.8 32.1 96.3



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



#78

Hexachloro-1,3-Butadiene

Concen: 7.236 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

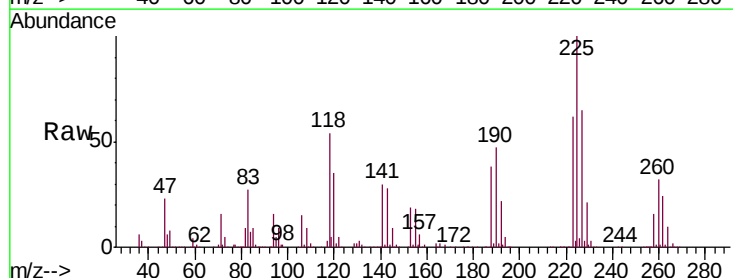
Tgt Ion:225 Resp: 1360816

Ion Ratio Lower Upper

225 100

223 63.4 50.2 75.4

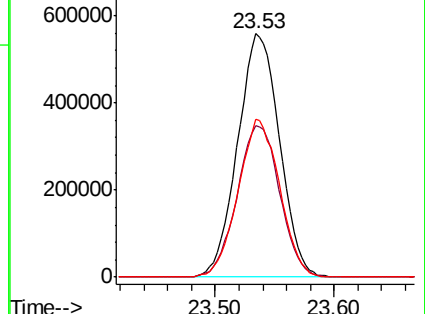
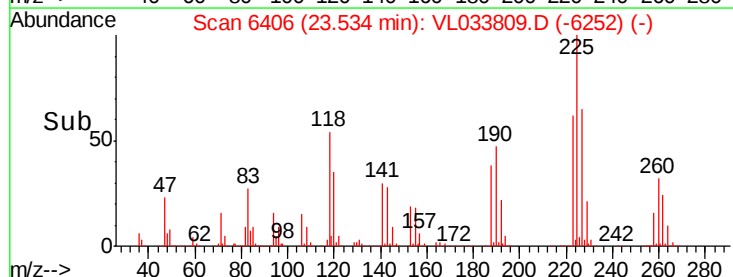
227 64.1 50.7 76.1

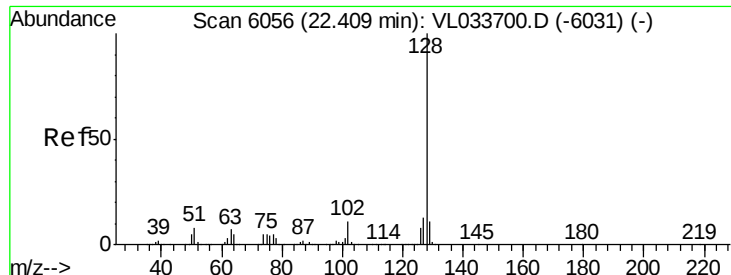


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 6.767 ppbv

RT: 22.40 min Scan# 6053

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

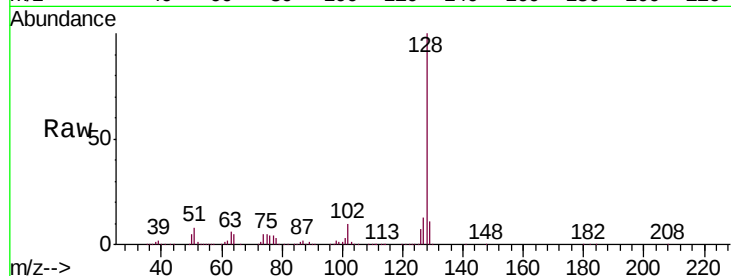
Tgt Ion:128 Resp: 2715356

Ion Ratio Lower Upper

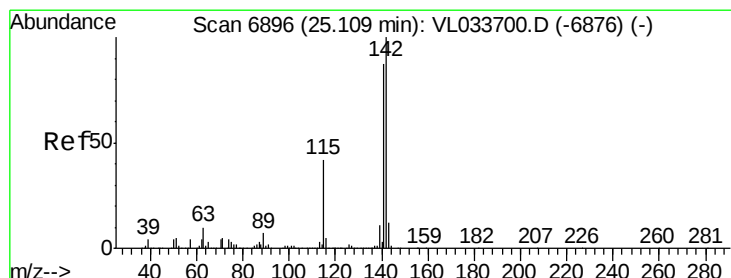
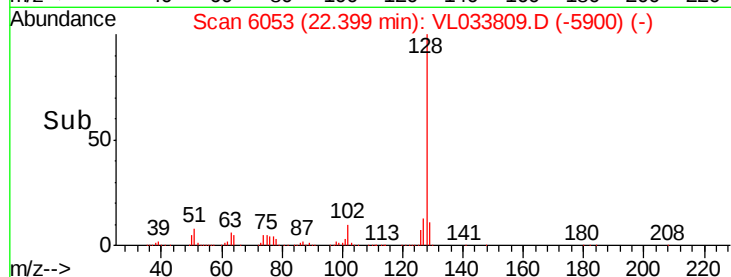
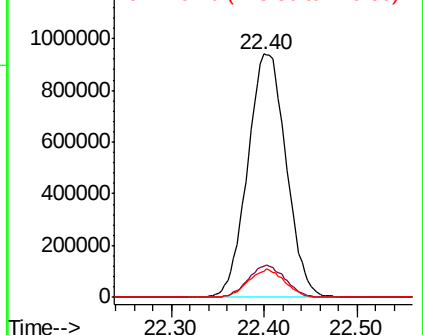
128 100

127 12.6 10.6 16.0

129 10.9 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: 7.031 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

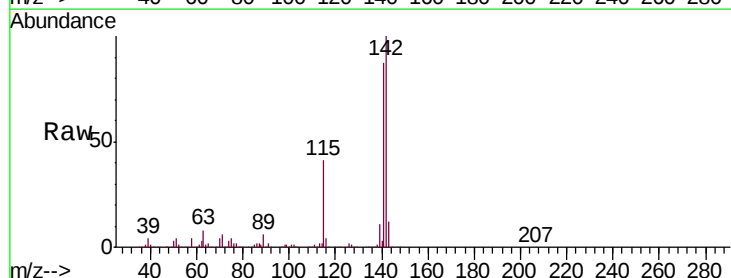
Tgt Ion:142 Resp: 1071897

Ion Ratio Lower Upper

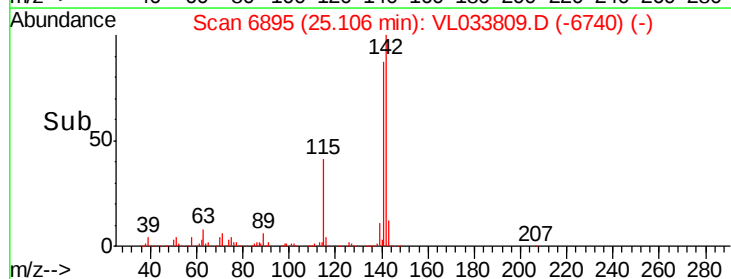
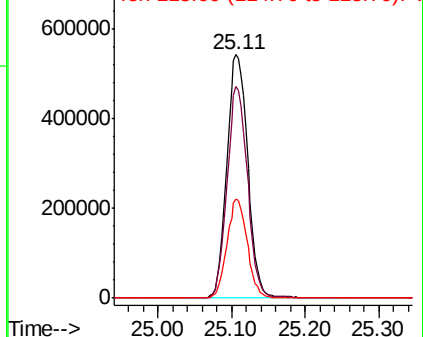
142 100

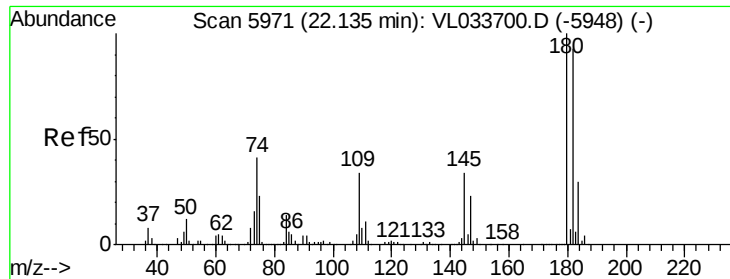
141 85.0 67.2 100.8

115 39.4 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: 6.656 ppbv

RT: 22.13 min Scan# 5968

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

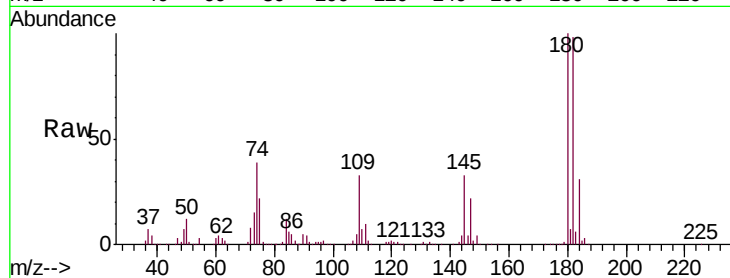
Tgt Ion:180 Resp: 1563810

Ion Ratio Lower Upper

180 100

182 95.8 76.1 114.1

184 30.5 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

