

Data File : VL032806.D
Acq On : 21 Nov 2018 9:10
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Nov 21 09:48:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1461219	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3915570	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4588601	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2685214	7.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	78.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1504008	7.160	ppbv	99
3) Chlorodifluoromethane	3.02	51	1093617	9.440	ppbv	98
4) Chloromethane	3.17	50	617400	9.611	ppbv	96
5) Vinyl Chloride	3.30	62	641117	9.419	ppbv	100
6) Bromomethane	3.52	94	413434	9.929	ppbv	94
7) Chloroethane	3.61	64	242214	9.873	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	1532968	9.262	ppbv	95
9) Propene	3.04	41	490049	10.571	ppbv	100
10) Heptane	8.26	43	1885559	10.654	ppbv	100
11) Trichlorofluoromethane	4.01	101	1695970	8.568	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1472251	9.106	ppbv	95
13) Ethanol	3.66	45	131815	8.681	ppbv	99
14) Bromoethene	3.80	108	540007	10.067	ppbv	99
15) Acetone	3.91	43	1127066	8.446	ppbv	99
16) 1,3-Butadiene	3.37	39	515785	9.981	ppbv	89
17) tert-Butyl alcohol	4.37	59	447254	10.687	ppbv	100
18) 1,1-Dichloroethene	4.36	96	781465	9.829	ppbv	97
19) Isopropyl Alcohol	4.03	45	817251	9.193	ppbv	100
20) Methylene Chloride	4.42	84	658476	9.532	ppbv	96
21) Allyl Chloride	4.49	41	1064538	9.493	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	771737	9.941	ppbv	98
23) Vinyl Acetate	5.17	43	2590054	10.648	ppbv	100
24) 1,1-Dichloroethane	5.10	63	1880890	9.726	ppbv	99
25) Ethyl Acetate	5.78	43	3067595	9.863	ppbv	100
26) Hexane	5.79	57	1414755	10.219	ppbv	100
27) Carbon Disulfide	4.63	76	1759755	10.024	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2336189	10.581	ppbv	99
29) Chloroform	5.86	83	2463541	9.984	ppbv	97
30) Cyclohexane	7.26	84	1311393	10.830	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1446367	10.391	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2509400	9.278	ppbv	99
34) 2-Butanone	5.34	43	2008246	9.889	ppbv	99
35) Carbon Tetrachloride	7.15	117	2727268	8.664	ppbv	99
36) Benzene	7.02	78	3118853	10.003	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1880349	8.959	ppbv	98
38) Trichloroethene	7.98	130	1285453	10.187	ppbv	97
39) 1,2-Dichloropropane	7.75	63	1154438	9.718	ppbv	95
40) 1,4-Dioxane	7.97	88	448317	10.566	ppbv	80
41) Tetrahydrofuran	6.16	42	1171308	10.055	ppbv	99
42) Bromodichloromethane	7.93	83	2628237	9.237	ppbv #	99
43) Methyl Methacrylate	8.15	69	1223814	10.513	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5149701	9.883	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1762235	11.282	ppbv	96
46) cis-1,3-Dichloropropene	8.85	75	2040131	10.811	ppbv	98
47) 1,1,2-Trichloroethane	9.63	97	1359047	9.675	ppbv	98
48) Dibromochloromethane	10.46	129	2303397	9.648	ppbv	100
49) Bromoform	13.21	173	1884939	9.560	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3135387	9.885	ppbv	99
51) 2-Hexanone	10.28	43	2174216	10.639	ppbv #	99
52) Tetrachloroethene	11.38	164	1114295	10.273	ppbv	99
53) Toluene	9.96	91	3607051	11.089	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1975065	9.946	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1618971	7.565	ppbv	99
57) Chlorobenzene	12.31	112	2717095	7.735	ppbv	97
58) Ethyl Benzene	12.88	91	4717174	8.542	ppbv	98
59) m/p-Xylene	13.14	91	3972154	8.080	ppbv #	31
60) o-Xylene	13.86	91	3795426	7.678	ppbv	99
61) Styrene	13.70	104	2866918	8.910	ppbv	98
62) Isopropylbenzene	14.84	105	5429320	8.126	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2477269	6.429	ppbv	99
64) n-propylbenzene	15.74	120	1402347	7.980	ppbv	91
65) tert-Butylbenzene	16.92	119	4675398	7.806	ppbv	97
66) Benzyl Chloride	17.17	91	2528304	7.636	ppbv	99
67) sec-Butylbenzene	17.47	105	6564848	7.606	ppbv	99
69) p-Isopropyltoluene	17.83	119	5545624	8.080	ppbv	98
70) n-Butylbenzene	18.73	91	5582455	8.011	ppbv	99
71) 2-Chlorotoluene	15.63	91	3922115	7.872	ppbv	98
72) 4-Ethyltoluene	16.01	105	4365839	8.058	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4122776	7.783	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	4223288	7.450	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	2434491	7.487	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2400035	7.902	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2380928	7.915	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1815916	11.185	ppbv	99
79) Naphthalene	22.43	128	4300250	11.548	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1216654	13.045	ppbv	97
81) 1,2,4-Trichlorobenzene	22.15	180	2077645	11.110	ppbv	100

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

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VSTDCCC010EC

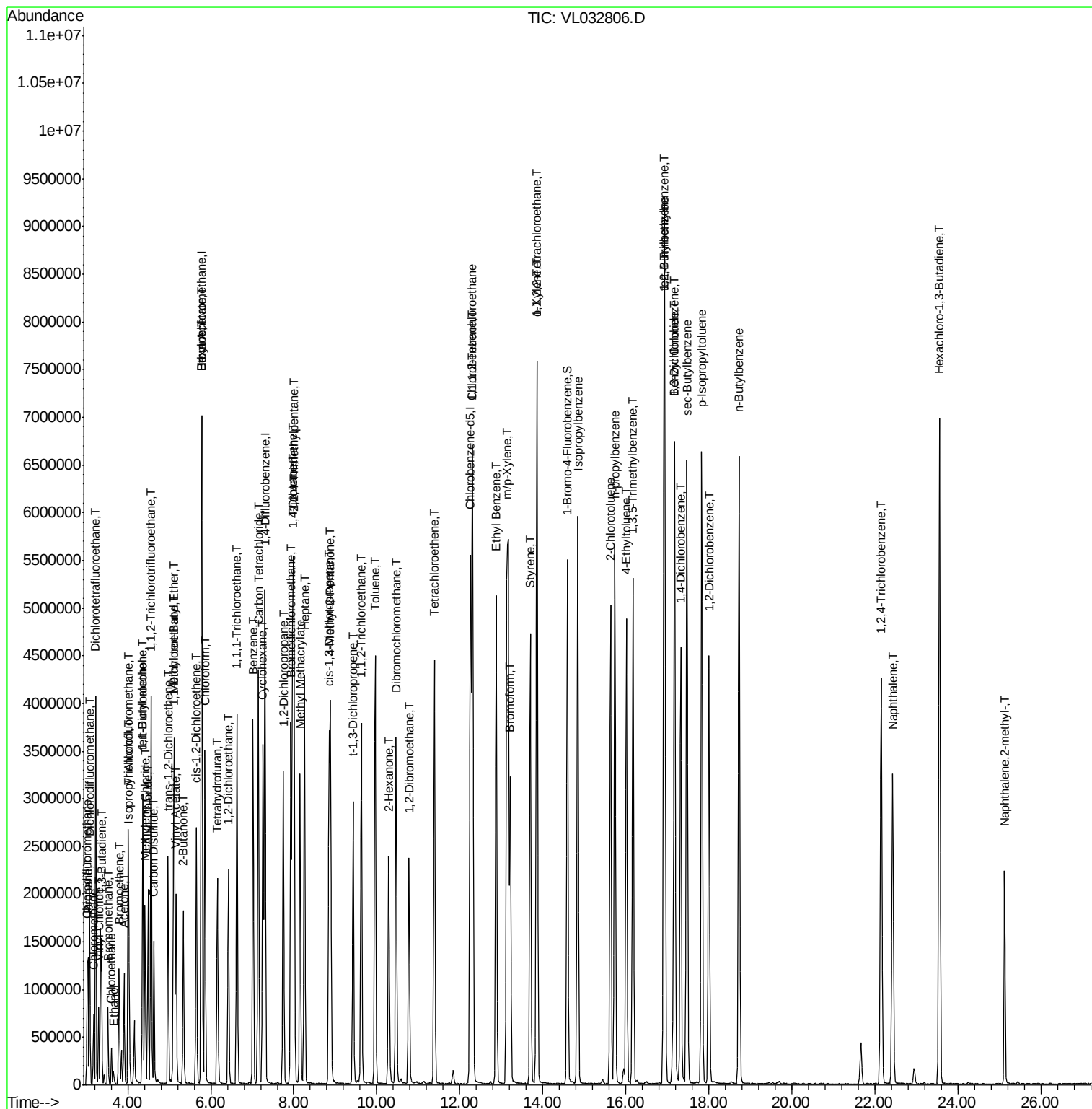
Quant Time: Nov 21 09:48:57 2018

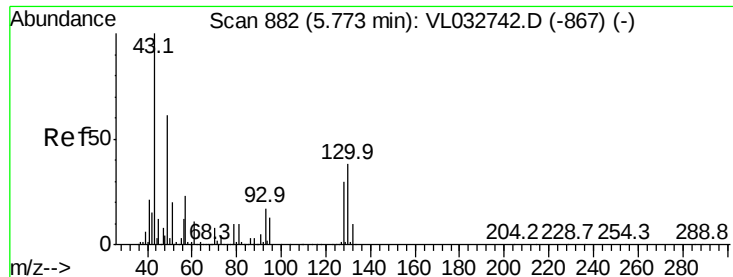
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL111418AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018

QLast Update : Wed Nov 14 07:00:23 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

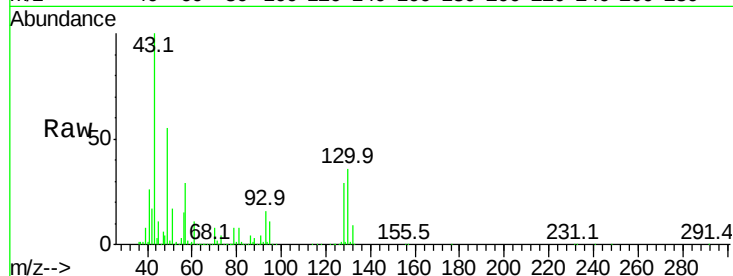
Tgt Ion: 49 Resp: 1461219

Ion Ratio Lower Upper

49 100

128 52.3 24.9 74.6

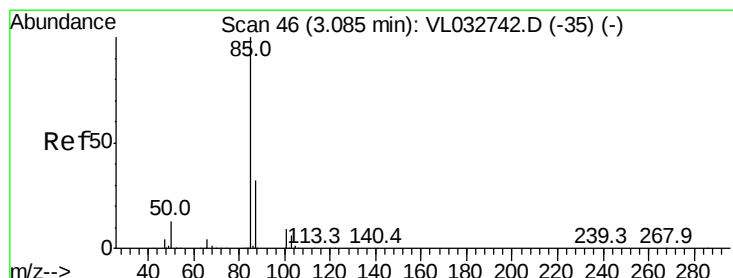
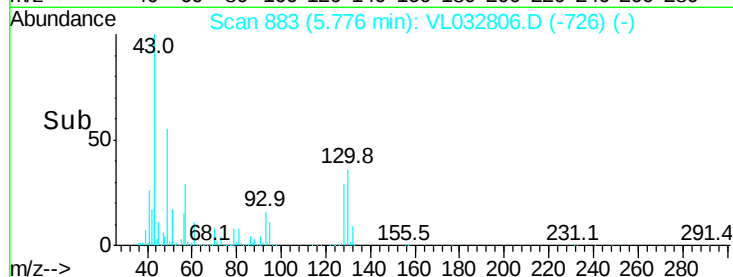
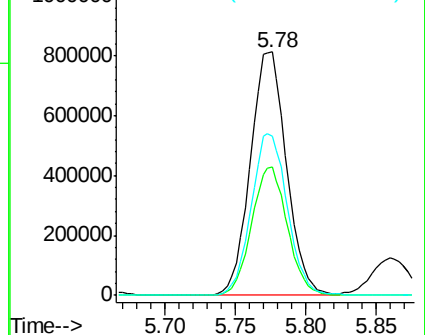
130 66.8 31.4 94.2



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: 7.160 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032806.D

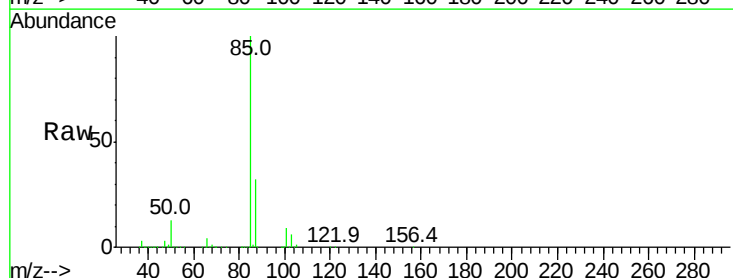
Acq: 21 Nov 2018 9:10

Tgt Ion: 85 Resp: 1504008

Ion Ratio Lower Upper

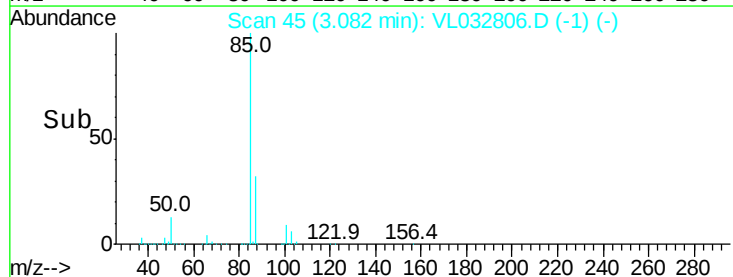
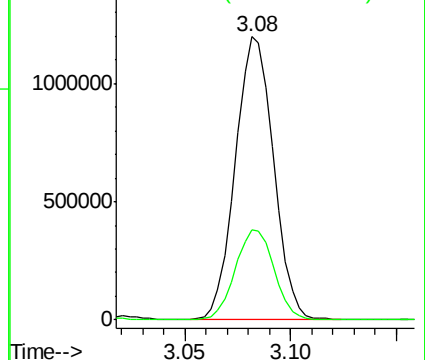
85 100

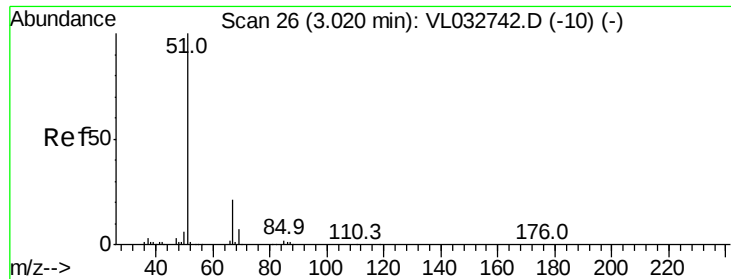
87 32.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.440 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

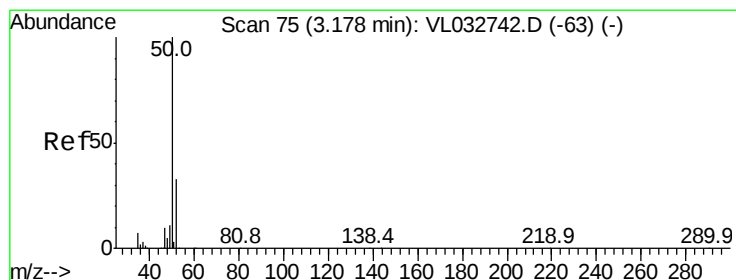
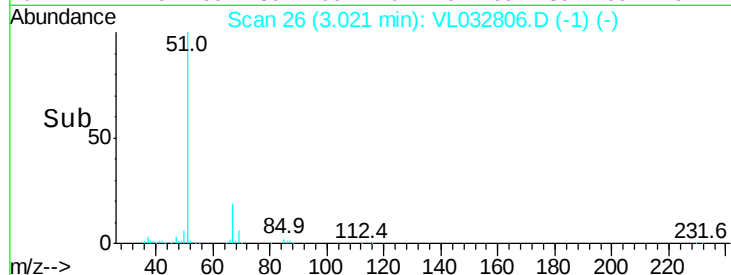
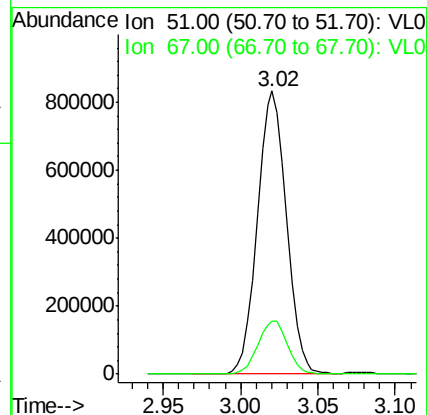
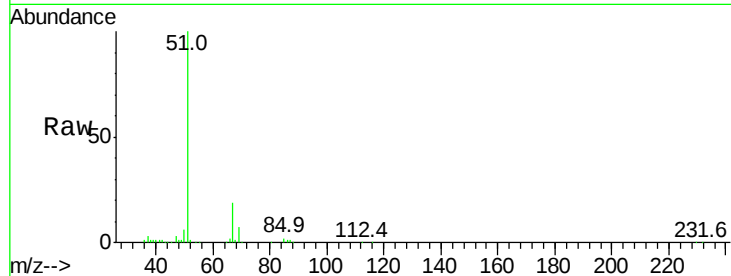
VSTDCCC010EC

Tgt Ion: 51 Resp: 1093617

Ion Ratio Lower Upper

51 100

67 19.1 16.1 24.1



#4

Chloromethane

Concen: 9.611 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032806.D

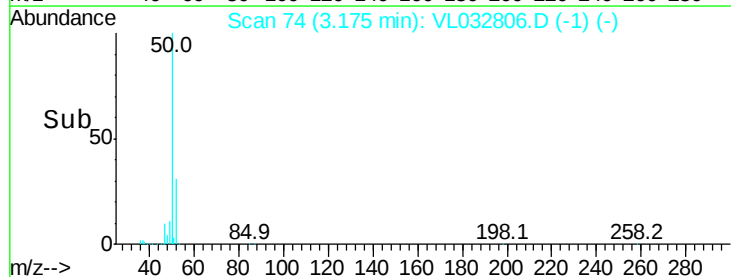
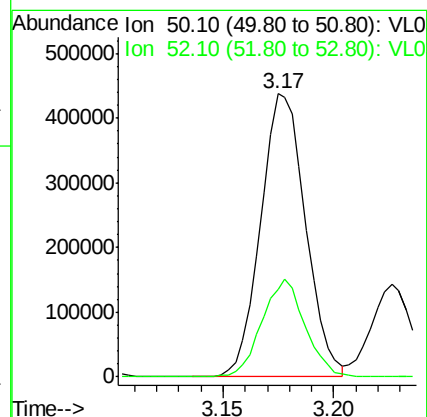
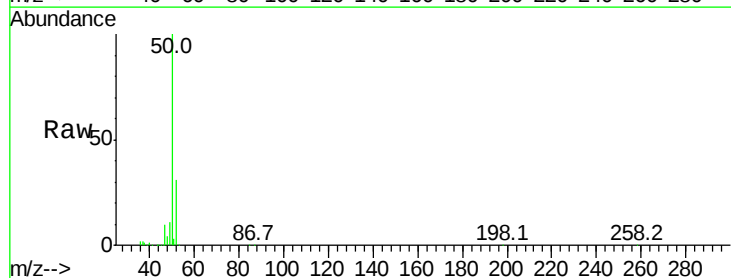
Acq: 21 Nov 2018 9:10

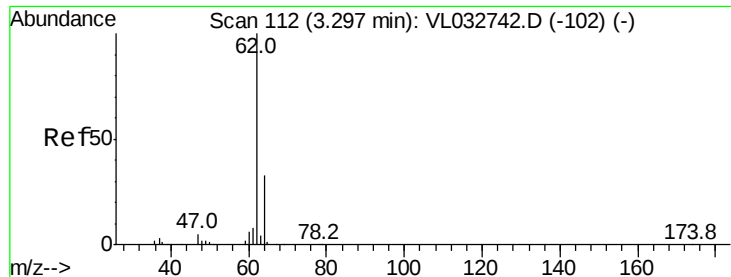
Tgt Ion: 50 Resp: 617400

Ion Ratio Lower Upper

50 100

52 31.0 26.6 40.0





#5

Vinyl Chloride

Concen: 9.419 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

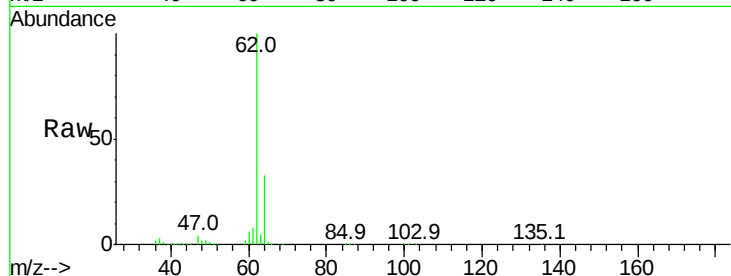
VSTDCCC010EC

Tgt Ion: 62 Resp: 641117

Ion Ratio Lower Upper

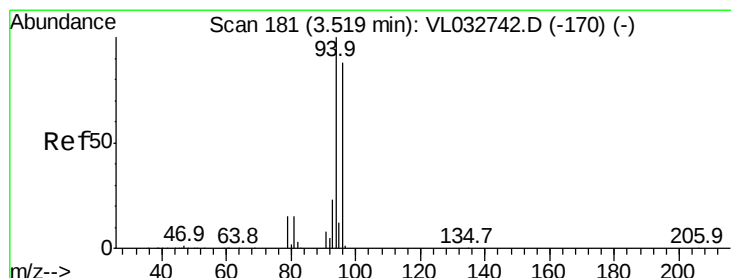
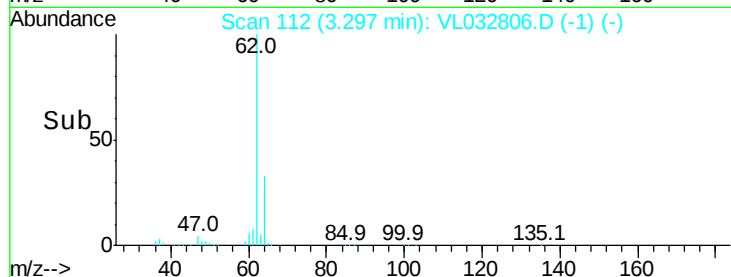
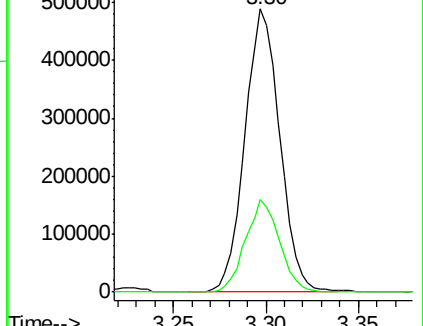
62 100

64 32.8 26.2 39.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.929 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL032806.D

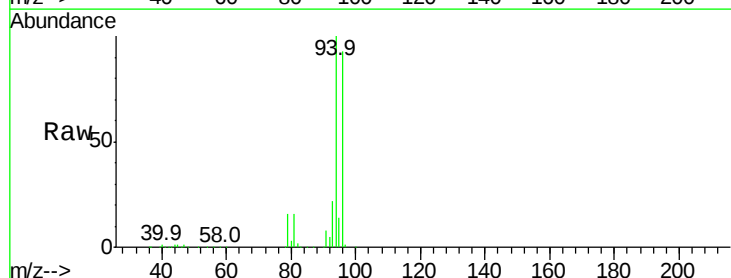
Acq: 21 Nov 2018 9:10

Tgt Ion: 94 Resp: 413434

Ion Ratio Lower Upper

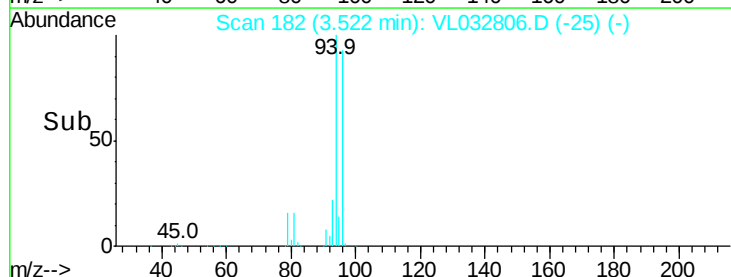
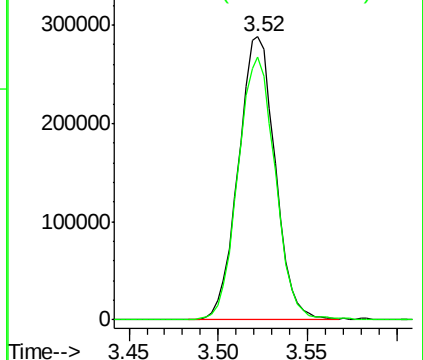
94 100

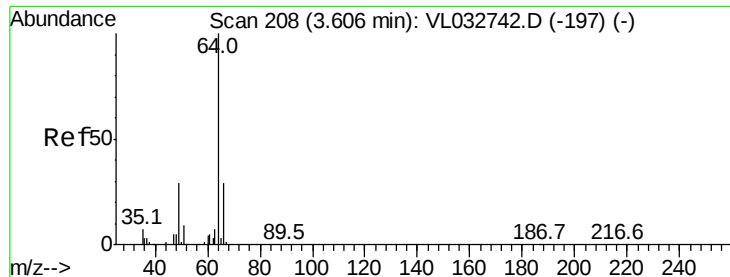
96 93.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.873 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

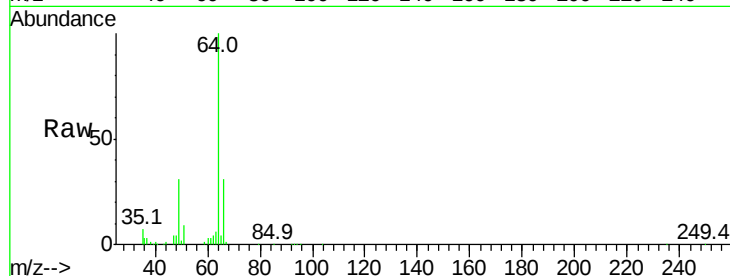
VSTDCCC010EC

Tgt Ion: 64 Resp: 242214

Ion Ratio Lower Upper

64 100

66 31.3 23.2 34.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

200000

150000

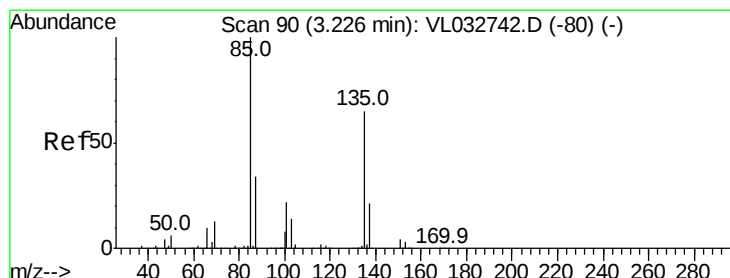
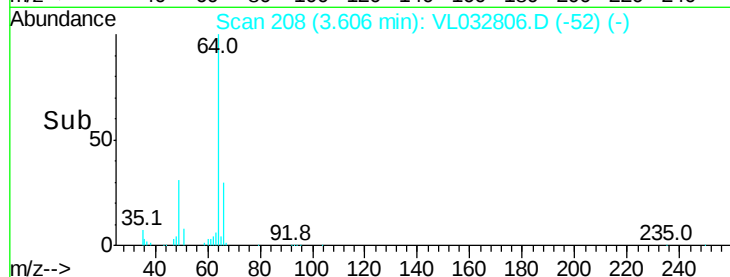
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.262 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL032806.D

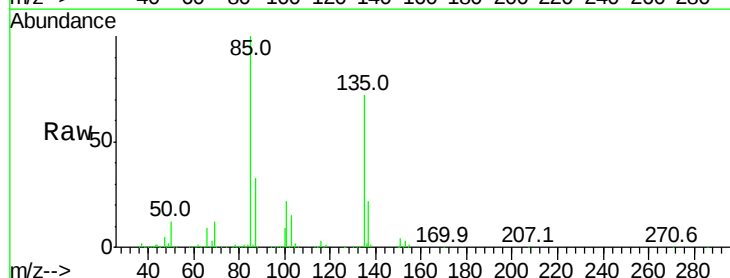
Acq: 21 Nov 2018 9:10

Tgt Ion: 85 Resp: 1532968

Ion Ratio Lower Upper

85 100

135 71.1 53.8 80.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.23

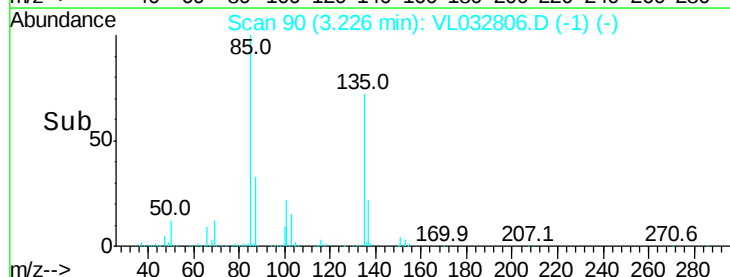
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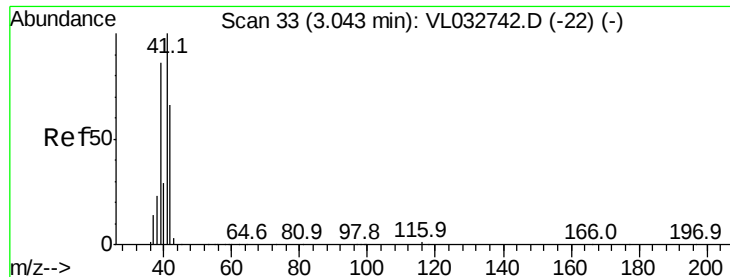
500000

0

3.20 3.25

Time-->





#9

Propene

Concen: 10.571 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

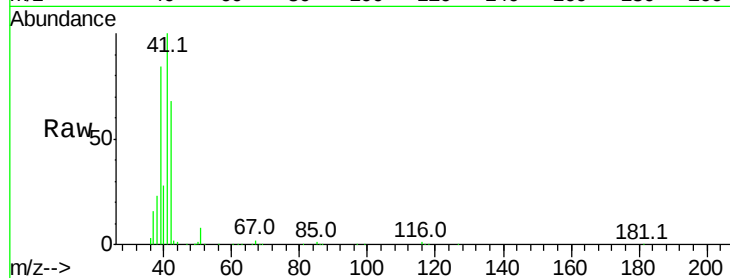
VSTDCCC010EC

Tgt Ion: 41 Resp: 490049

Ion Ratio Lower Upper

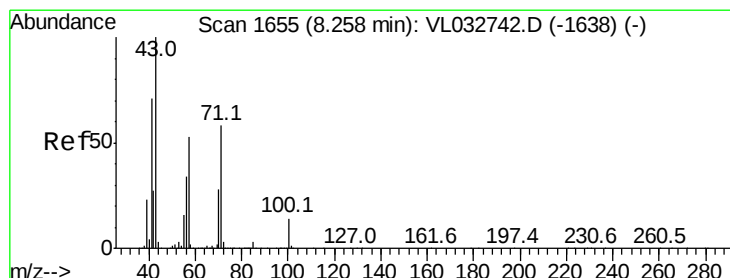
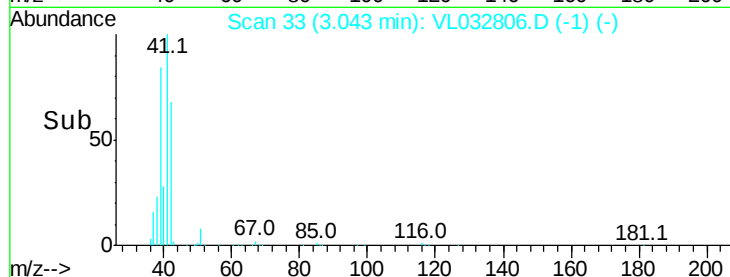
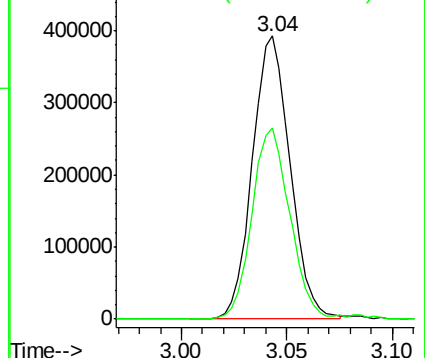
41 100

42 68.7 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.654 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VL032806.D

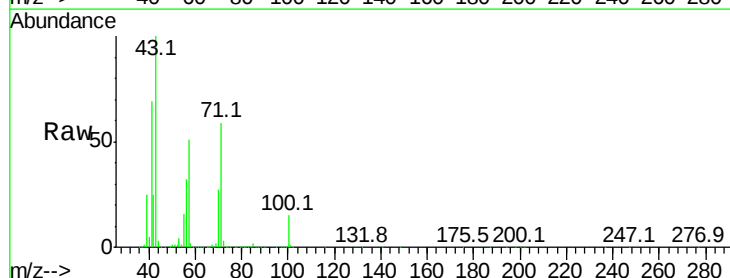
Acq: 21 Nov 2018 9:10

Tgt Ion: 43 Resp: 1885559

Ion Ratio Lower Upper

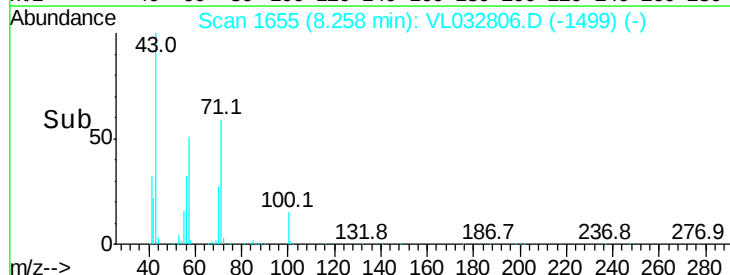
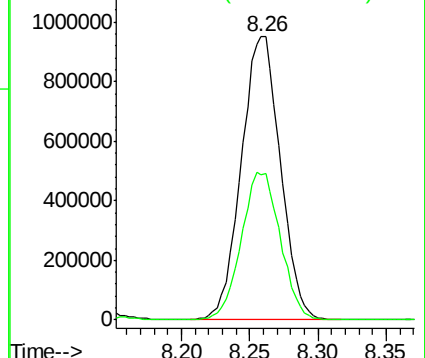
43 100

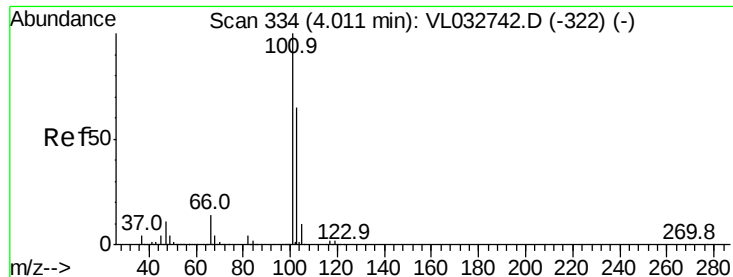
57 52.2 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.568 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

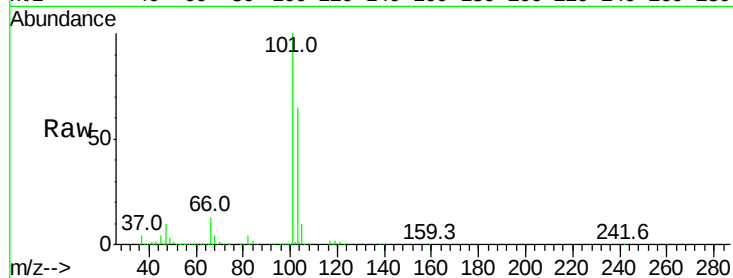
VSTDCCC010EC

Tgt Ion:101 Resp: 1695970

Ion Ratio Lower Upper

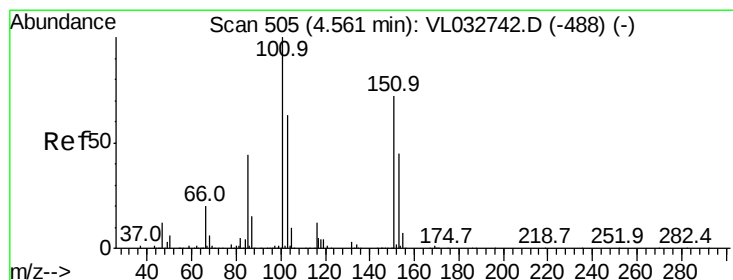
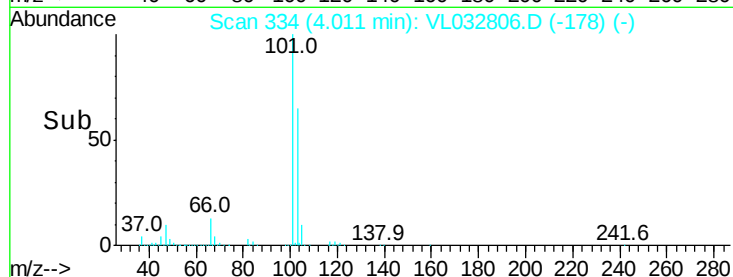
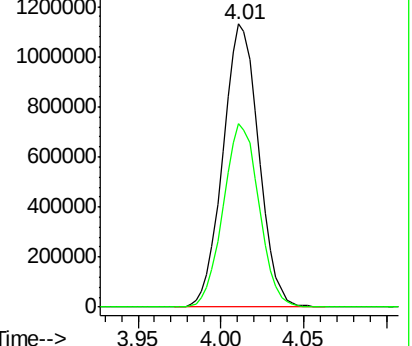
101 100

103 65.1 51.6 77.4



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: 9.106 ppbv

RT: 4.56 min Scan# 505

Delta R.T. 0.00 min

Lab File: VL032806.D

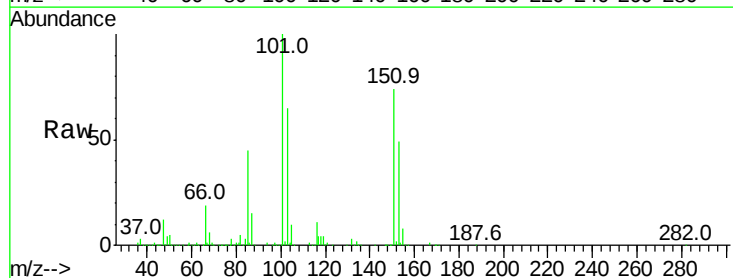
Acq: 21 Nov 2018 9:10

Tgt Ion:101 Resp: 1472251

Ion Ratio Lower Upper

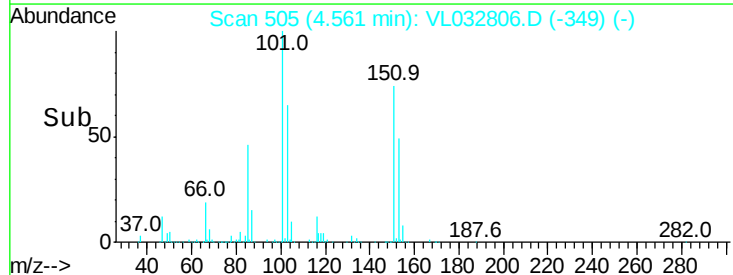
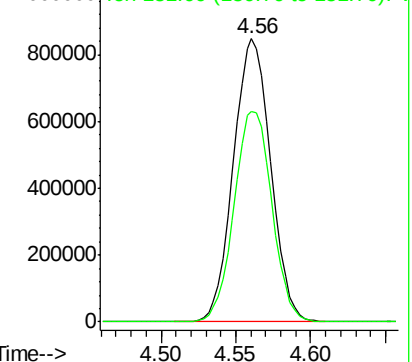
101 100

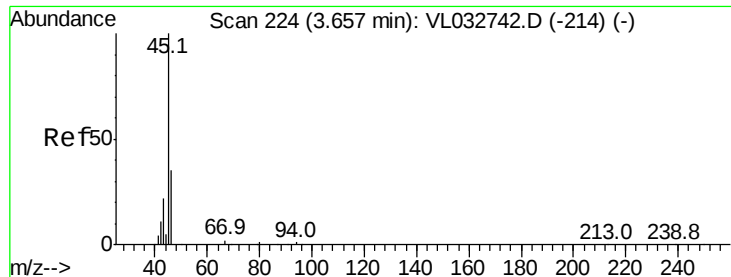
151 75.4 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 8.681 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

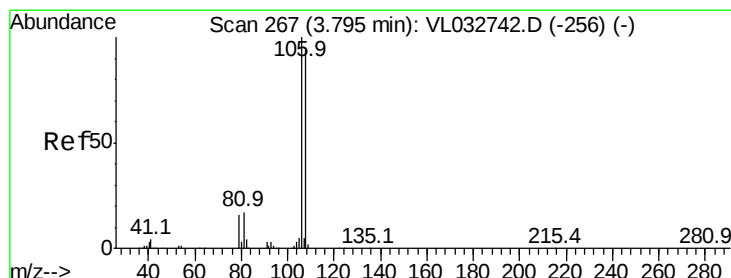
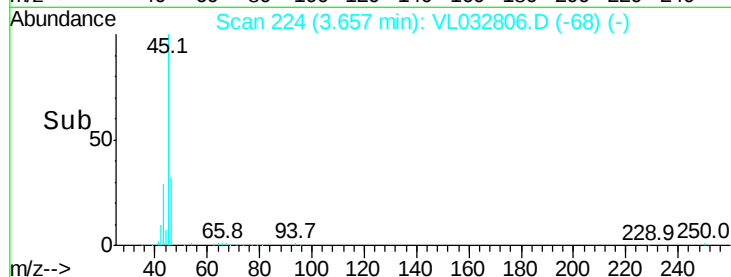
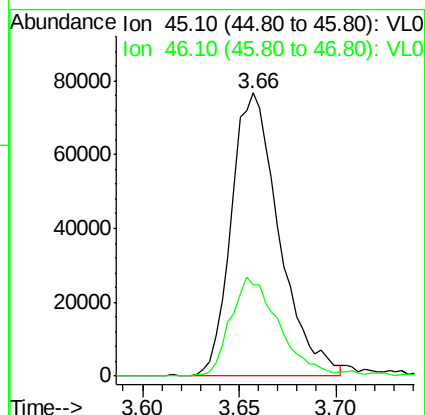
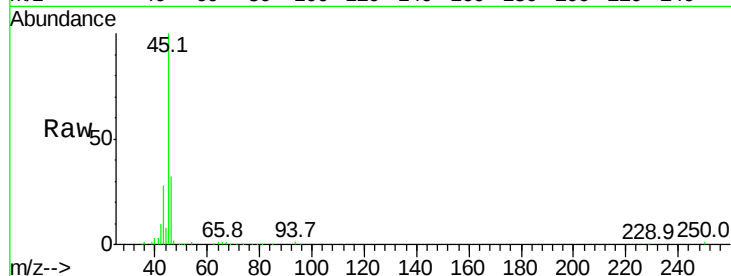
VSTDCCC010EC

Tgt Ion: 45 Resp: 131815

Ion Ratio Lower Upper

45 100

46 36.6 14.5 57.9



#14

Bromoethene

Concen: 10.067 ppbv

RT: 3.80 min Scan# 267

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

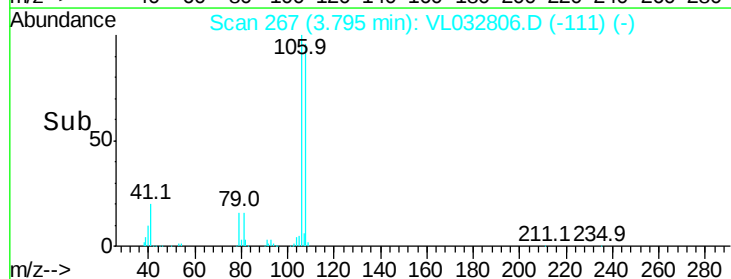
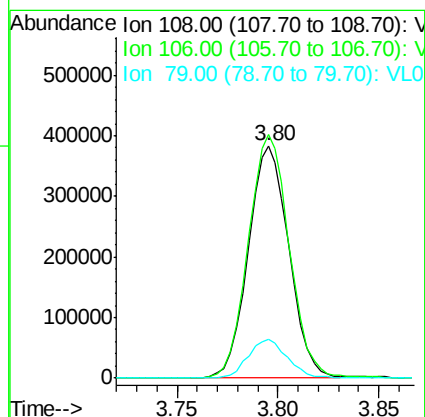
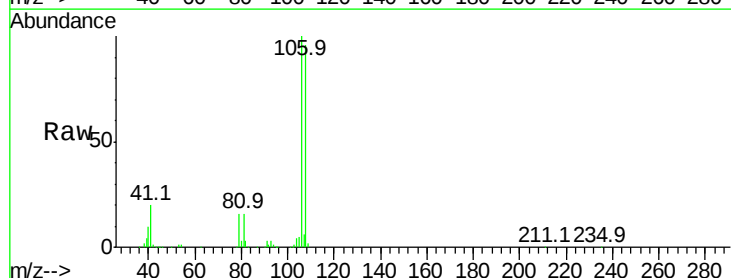
Tgt Ion: 108 Resp: 540007

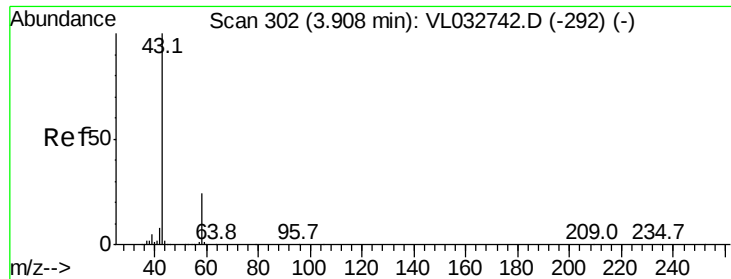
Ion Ratio Lower Upper

108 100

106 106.7 84.9 127.3

79 16.5 14.2 21.4





#15

Acetone

Concen: 8.446 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

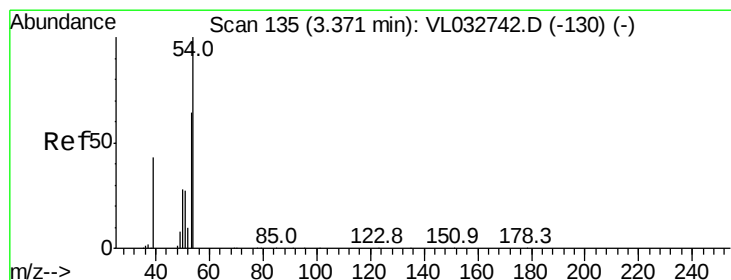
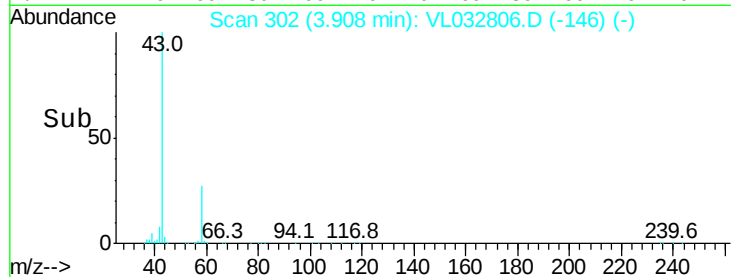
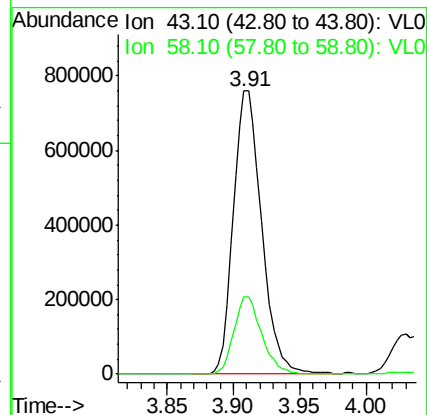
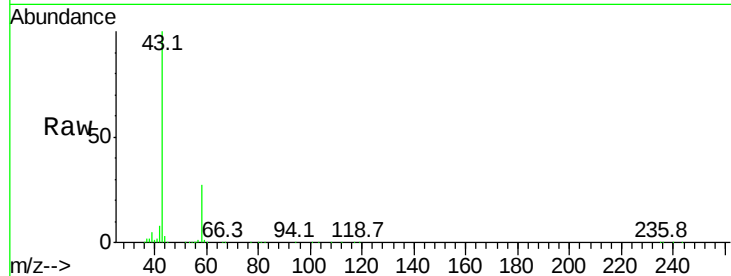
VSTDCCC010EC

Tgt Ion: 43 Resp: 1127066

Ion Ratio Lower Upper

43 100

58 27.0 21.1 31.7



#16

1,3-Butadiene

Concen: 9.981 ppbv

RT: 3.37 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL032806.D

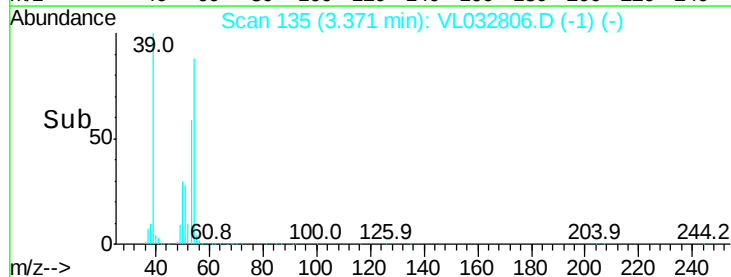
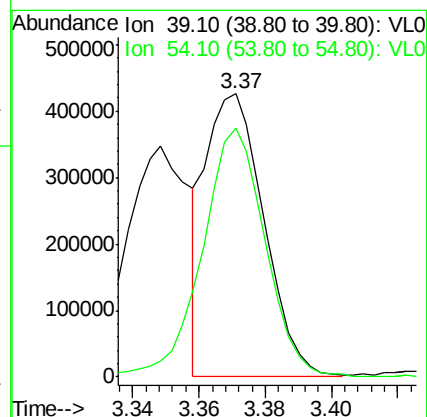
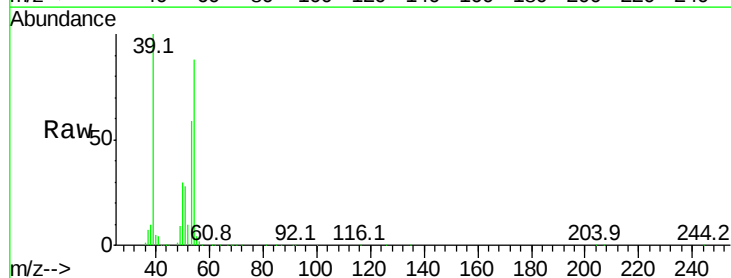
Acq: 21 Nov 2018 9:10

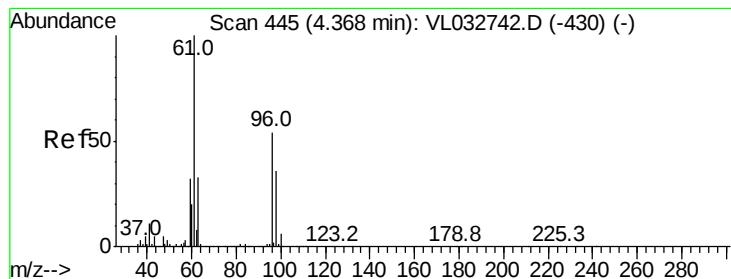
Tgt Ion: 39 Resp: 515785

Ion Ratio Lower Upper

39 100

54 96.1 68.9 103.3





#17

tert-Butyl alcohol

Concen: 10.687 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

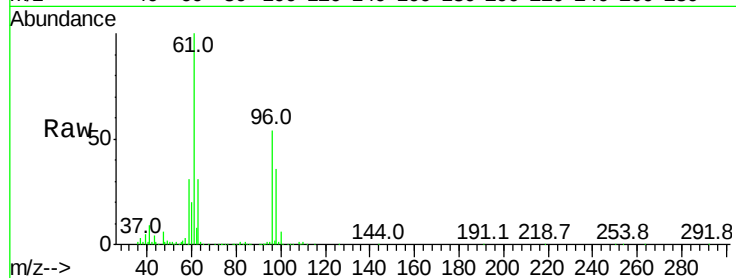
VSTDCCC010EC

Tgt Ion: 59 Resp: 447254

Ion Ratio Lower Upper

59 100

57 10.0 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.37

250000

200000

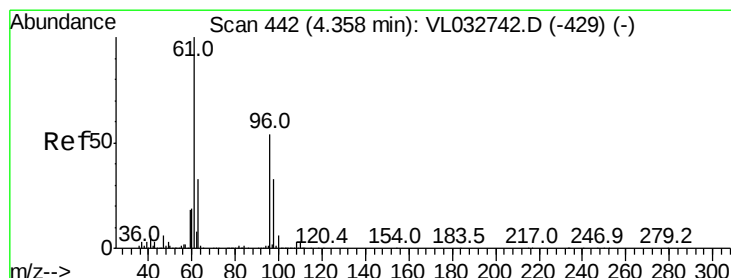
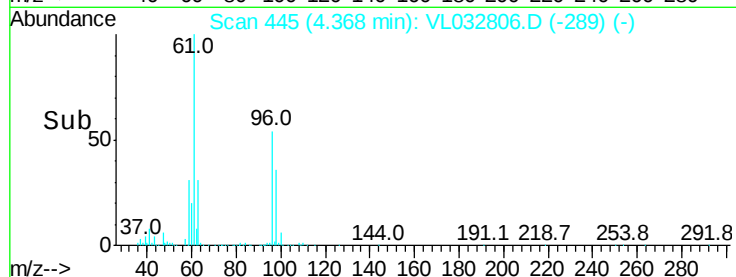
150000

100000

50000

0

Time-->



#18

1,1-Dichloroethene

Concen: 9.829 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

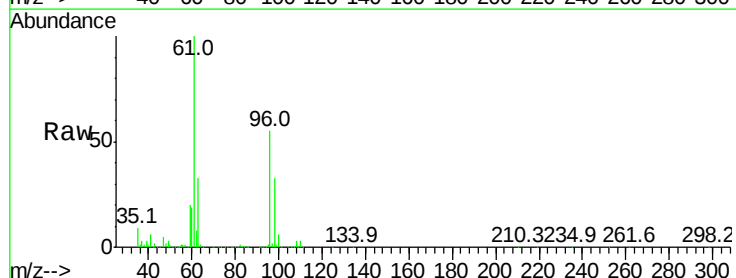
Tgt Ion: 96 Resp: 781465

Ion Ratio Lower Upper

96 100

61 181.1 148.5 222.7

98 59.7 48.6 72.8



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

1200000

1000000

800000

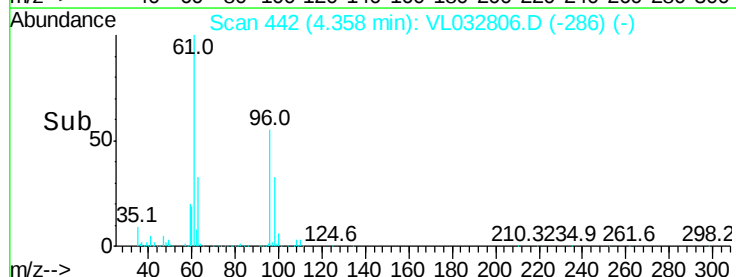
600000

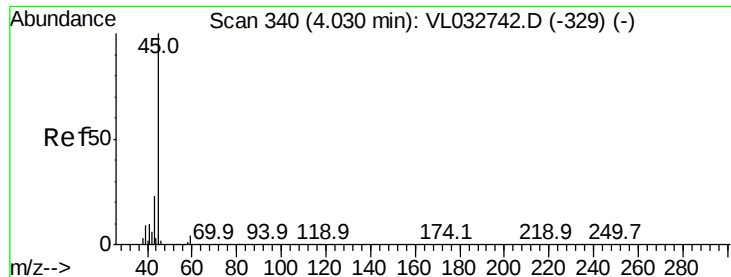
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.193 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

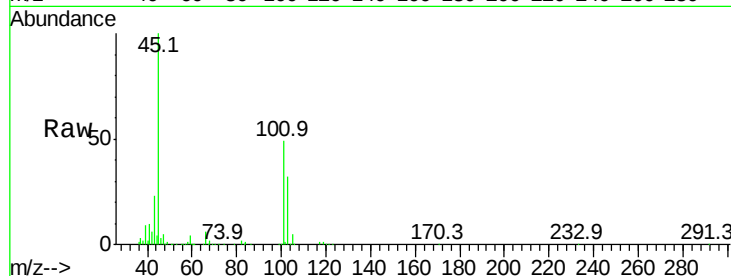
VSTDCCC010EC

Tgt Ion: 45 Resp: 817251

Ion Ratio Lower Upper

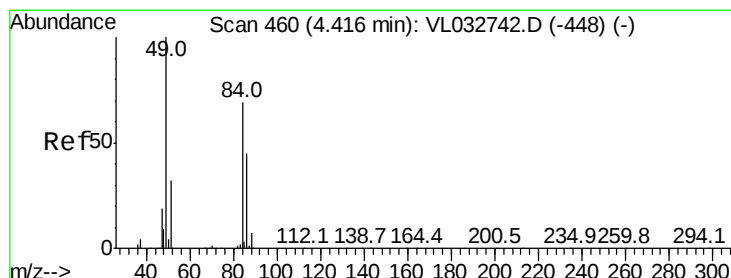
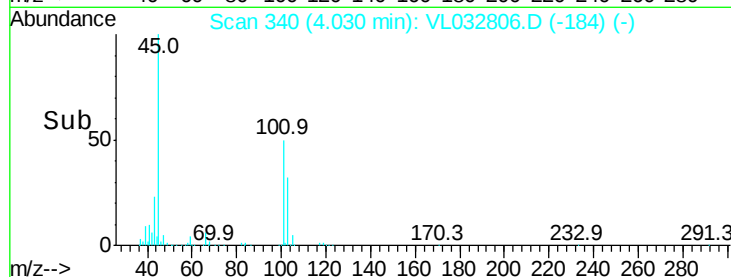
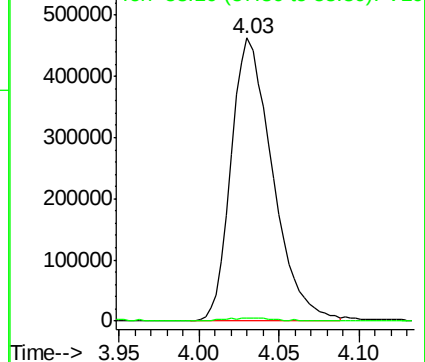
45 100

58 1.7 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.532 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Tgt Ion: 84 Resp: 658476

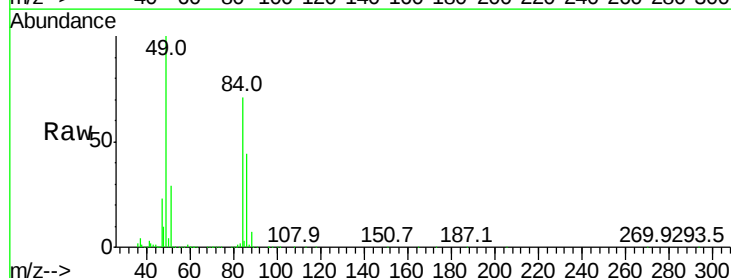
Ion Ratio Lower Upper

84 100

49 140.7 115.8 173.6

51 40.9 36.9 55.3

86 62.2 52.4 78.6

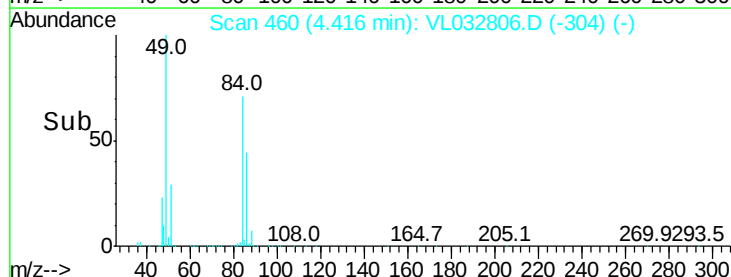
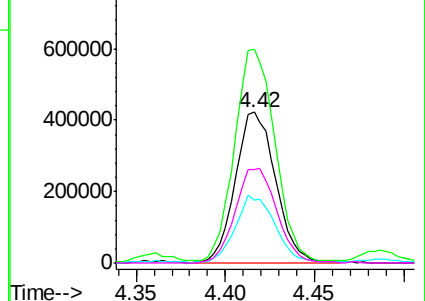


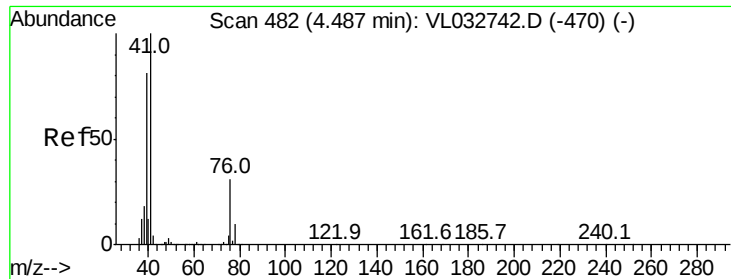
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allyl Chloride

Concen: 9.493 ppbv

RT: 4.49 min Scan# 482

Delta R.T. 0.00 min

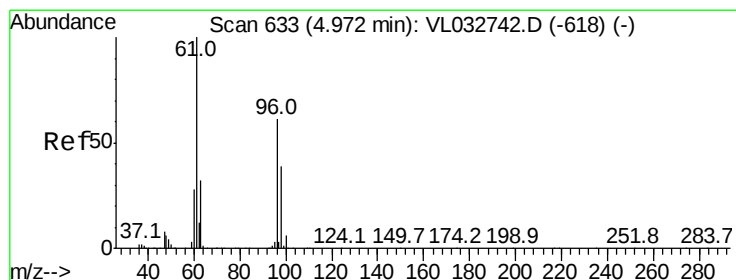
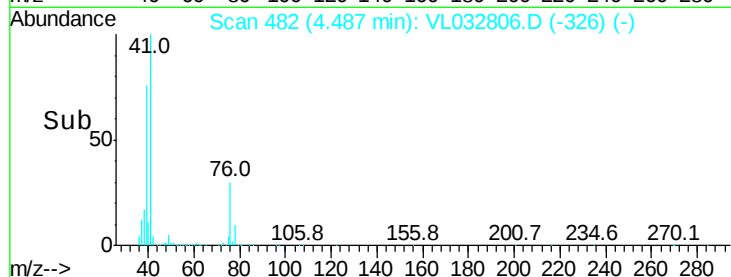
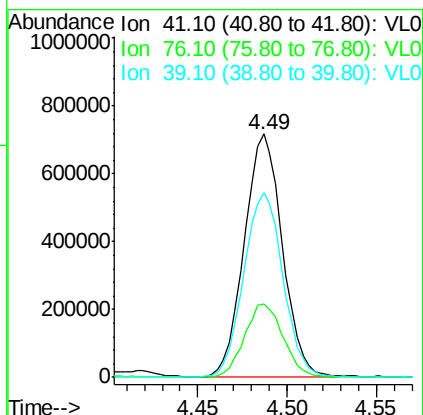
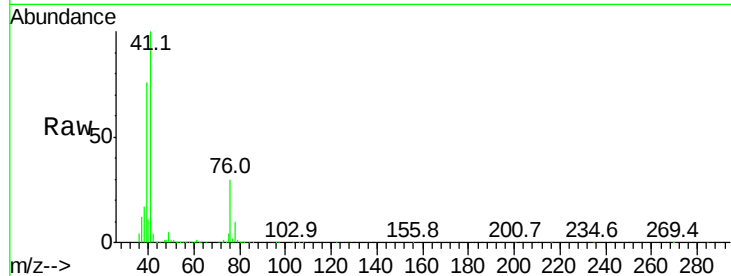
Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 41 Resp: 1064538

Ion	Ratio	Lower	Upper
41	100		
76	30.9	24.4	36.6
39	78.7	63.5	95.3



#22

trans-1,2-Dichloroethene

Concen: 9.941 ppbv

RT: 4.97 min Scan# 633

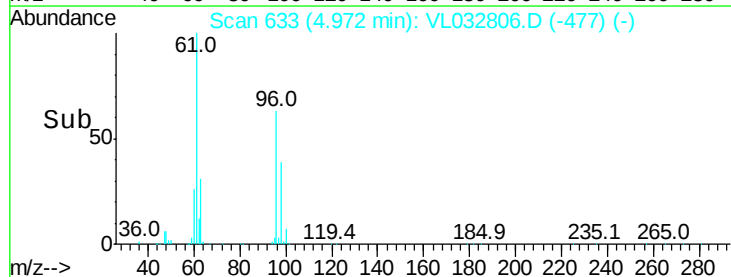
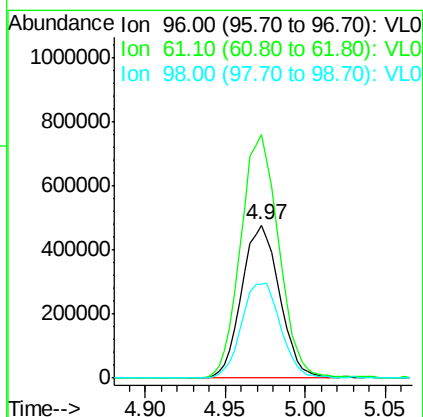
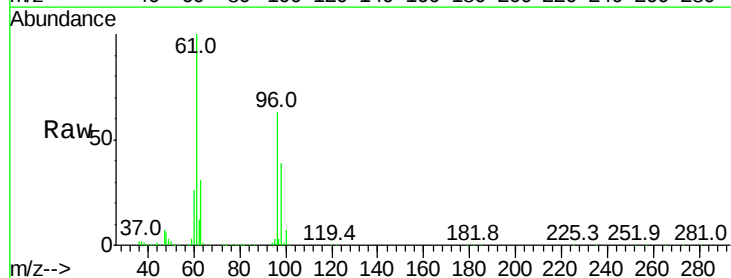
Delta R.T. 0.00 min

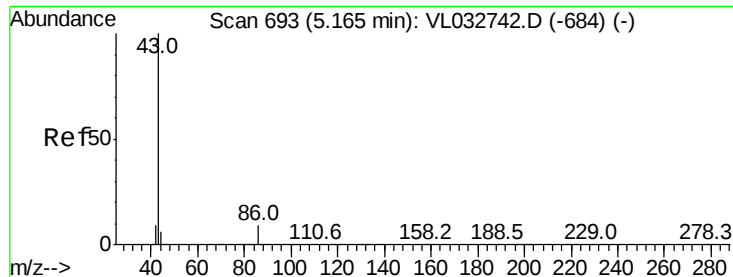
Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Tgt Ion: 96 Resp: 771737

Ion	Ratio	Lower	Upper
96	100		
61	159.2	130.2	195.2
98	61.7	50.2	75.2





#23

Vinyl Acetate

Concen: 10.648 ppbv

RT: 5.17 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2590054

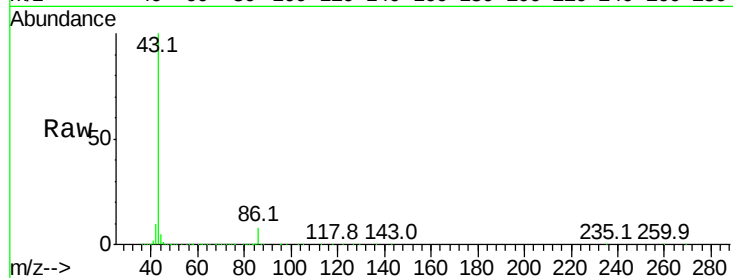
Ion Ratio Lower Upper

43 100

86 7.8 6.2 9.4

42 9.6 7.8 11.6

44 5.2 4.4 6.6

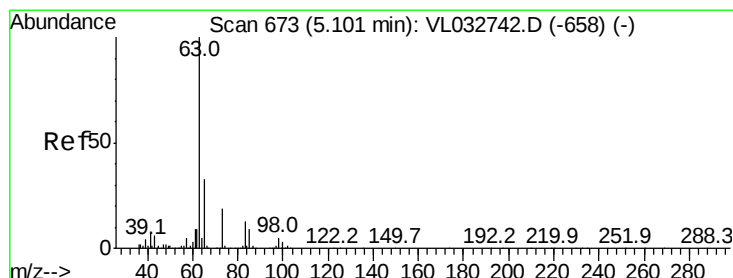
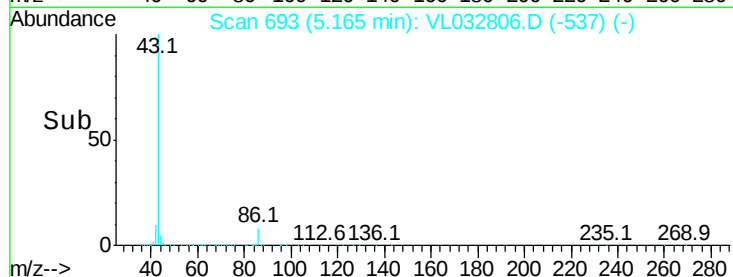
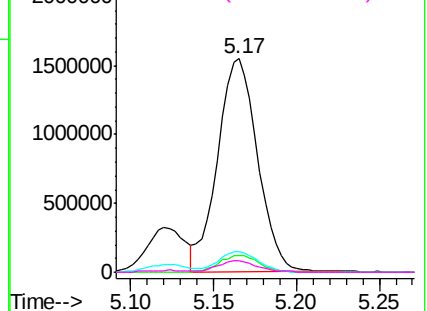


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.726 ppbv

RT: 5.10 min Scan# 673

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

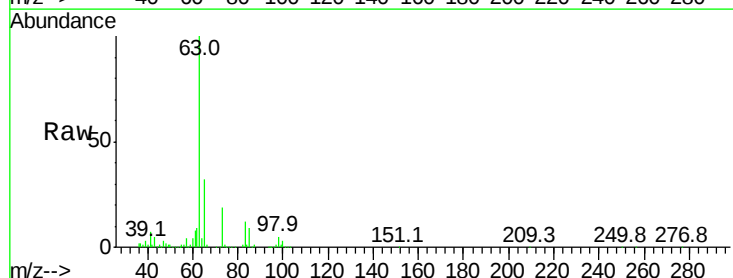
Tgt Ion: 63 Resp: 1880890

Ion Ratio Lower Upper

63 100

98 4.7 2.3 6.8

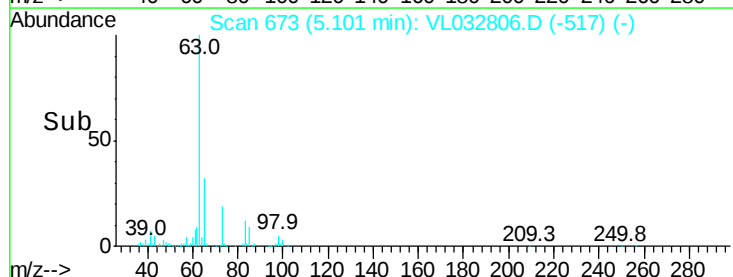
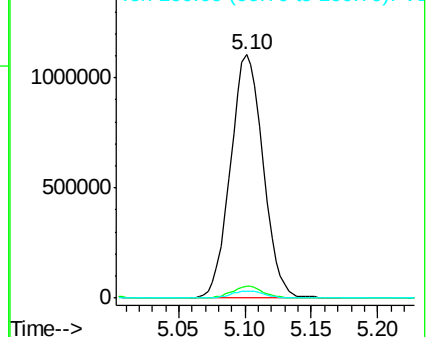
100 3.0 1.4 4.2

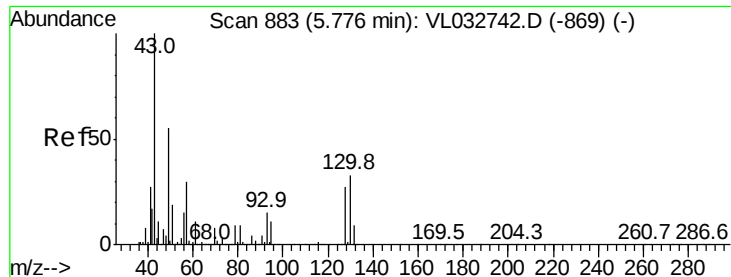


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.863 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 3067595

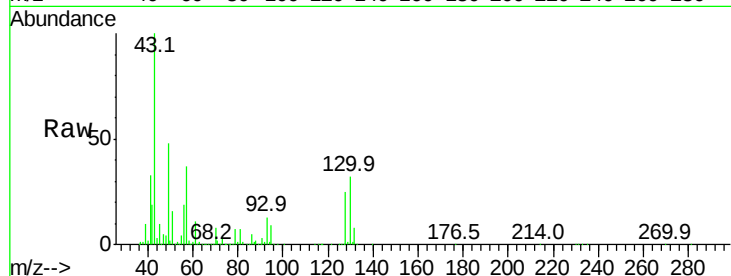
Ion Ratio Lower Upper

43 100

45 9.7 7.9 11.9

61 9.5 7.8 11.6

70 7.4 5.8 8.6

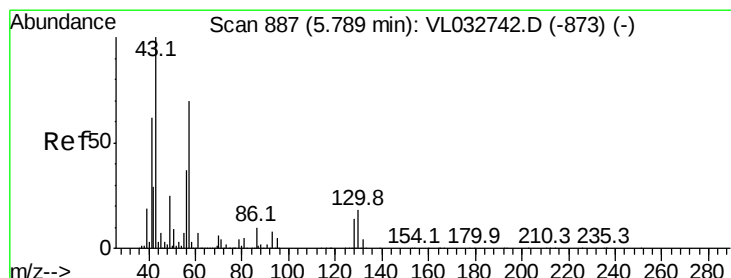
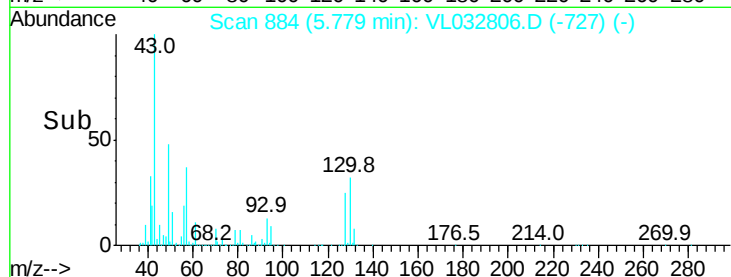
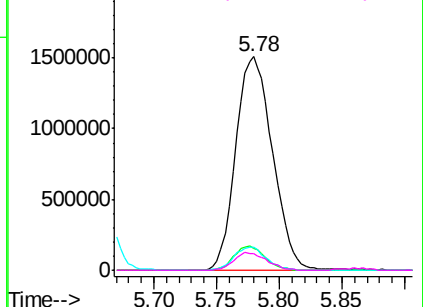


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.219 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Tgt Ion: 57 Resp: 1414755

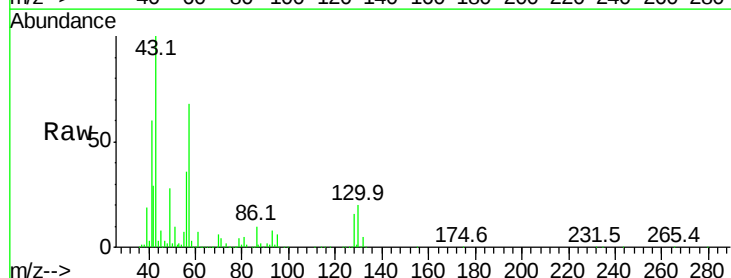
Ion Ratio Lower Upper

57 100

41 87.1 70.3 105.5

43 217.5 174.0 261.0

56 52.7 42.3 63.5

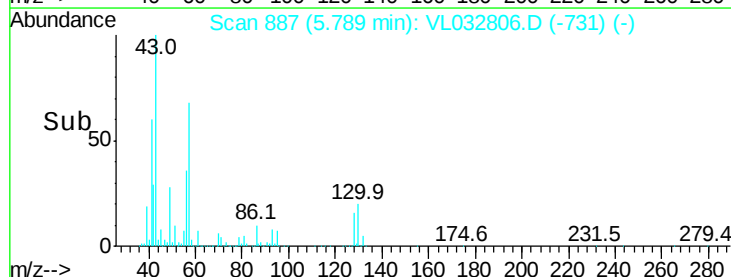
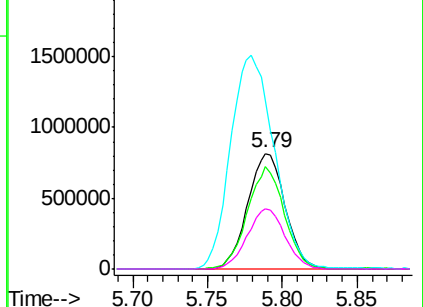


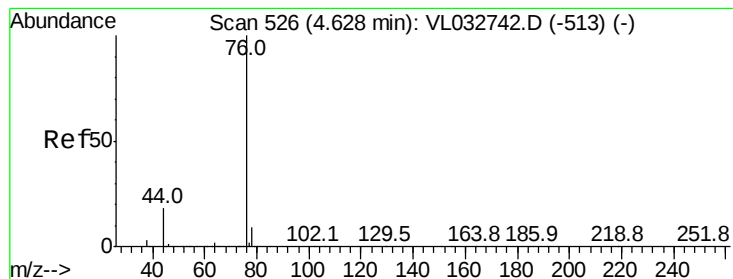
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.024 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

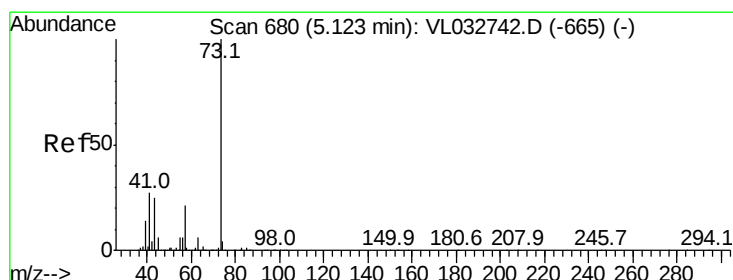
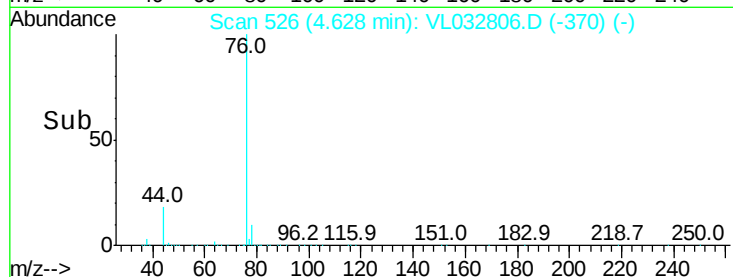
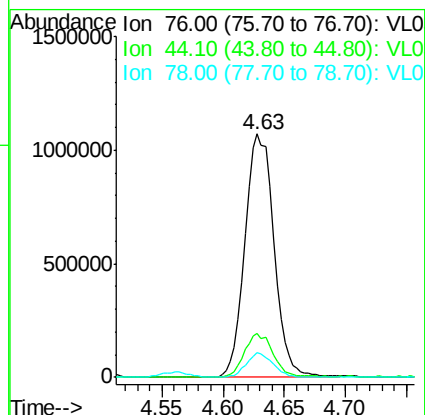
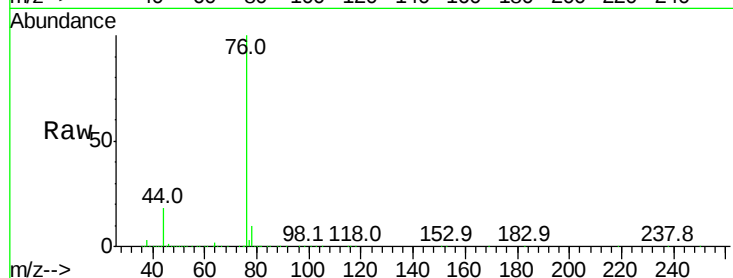
Tgt Ion: 76 Resp: 1759755

Ion	Ratio	Lower	Upper
76	100		
44	17.3	14.4	21.6
78	9.3	7.7	11.5

76 100

44 17.3 14.4 21.6

78 9.3 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 10.581 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032806.D

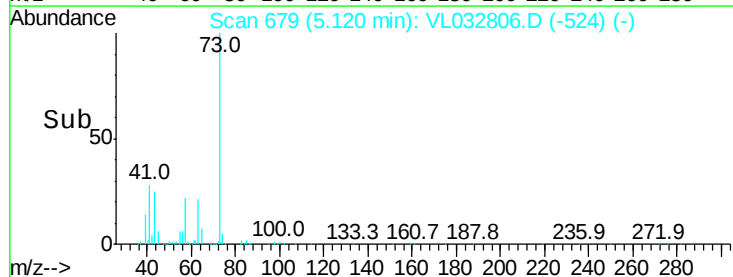
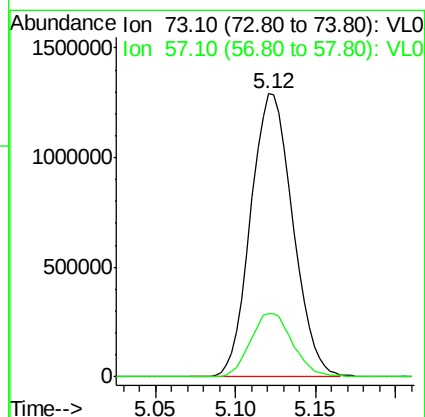
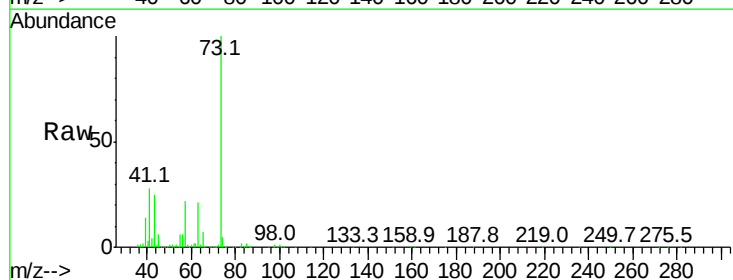
Acq: 21 Nov 2018 9:10

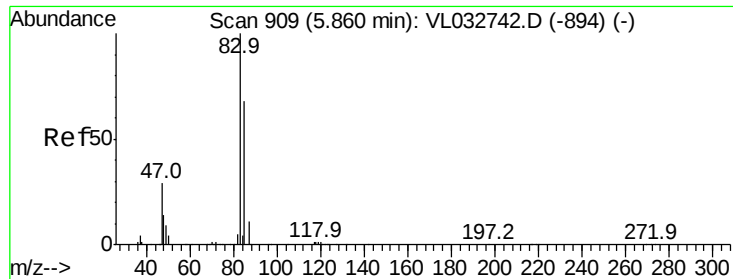
Tgt Ion: 73 Resp: 2336189

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.5	26.3

73 100

57 22.5 17.5 26.3





#29

Chloroform

Concen: 9.984 ppbv

RT: 5.86 min Scan# 909

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

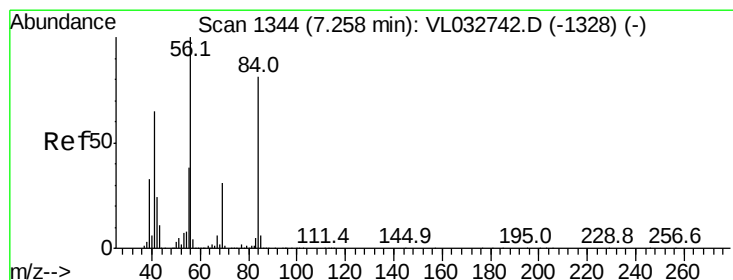
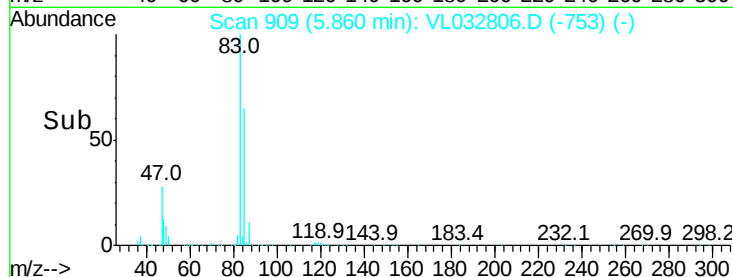
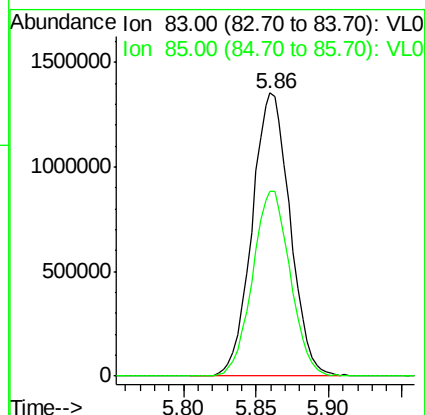
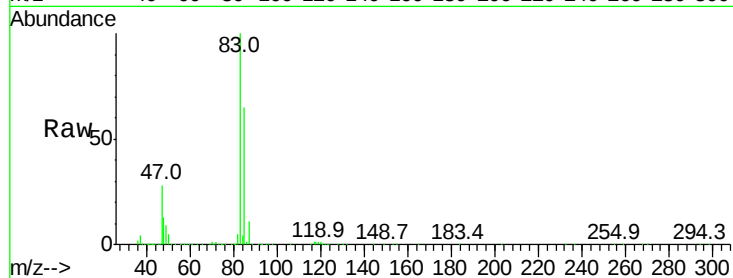
VSTDCCC010EC

Tgt Ion: 83 Resp: 2463541

Ion Ratio Lower Upper

83 100

85 65.1 54.2 81.4



#30

Cyclohexane

Concen: 10.830 ppbv

RT: 7.26 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

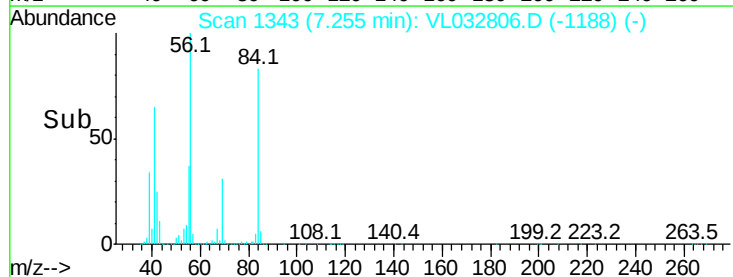
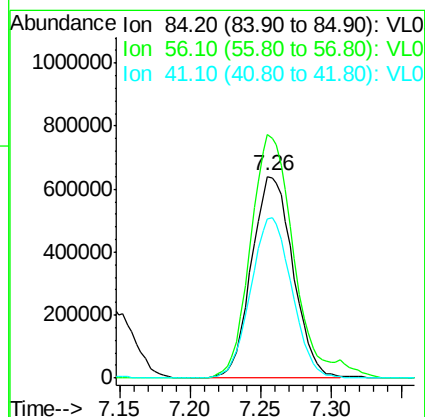
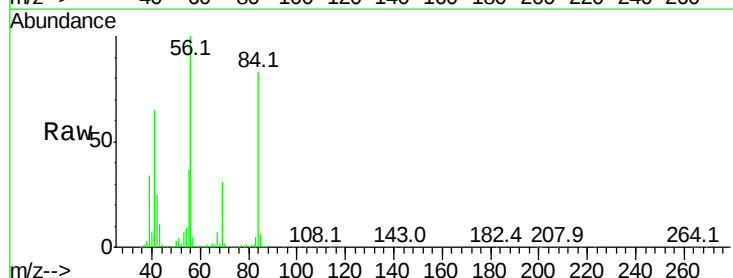
Tgt Ion: 84 Resp: 1311393

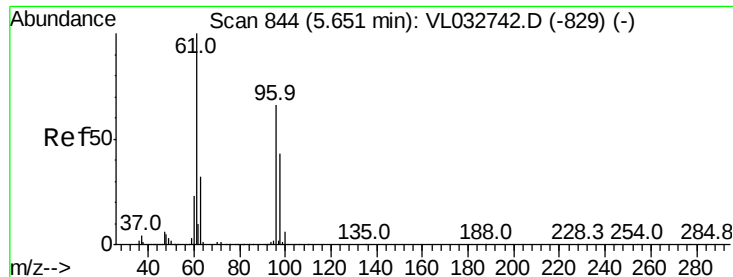
Ion Ratio Lower Upper

84 100

56 127.7 105.0 157.4

41 79.2 65.3 97.9



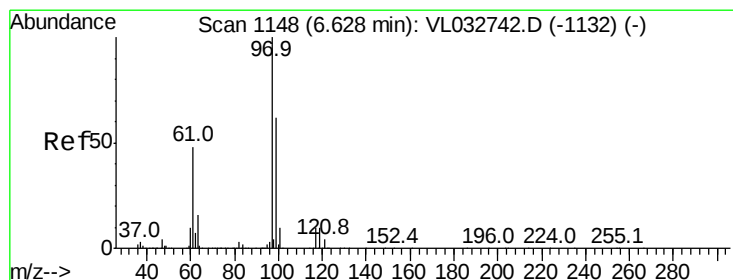
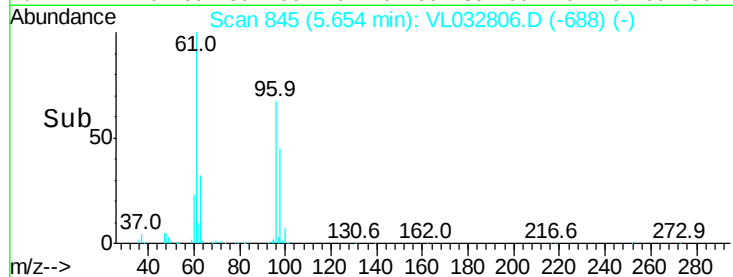
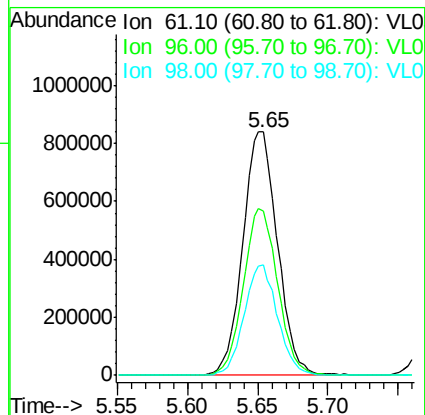
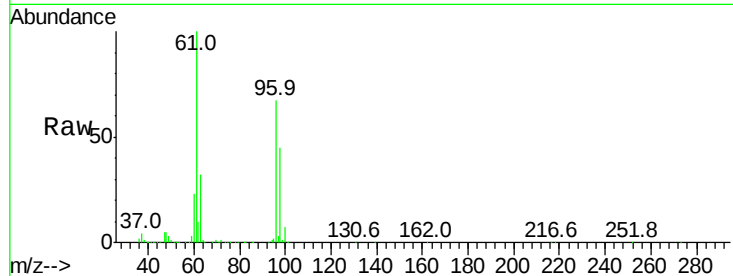


#31

cis-1,2-Dichloroethene
 Concen: 10.391 ppbv
 RT: 5.65 min Scan# 845
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

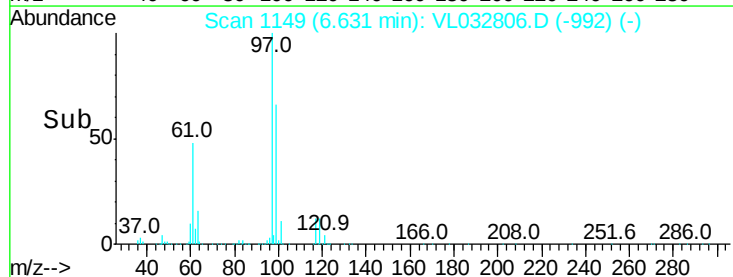
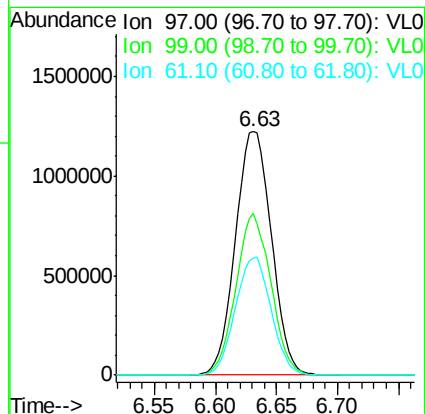
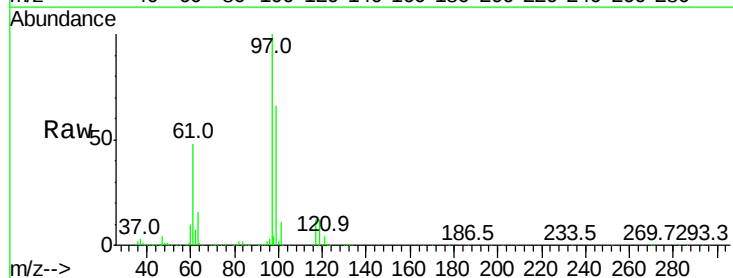
Tgt Ion: 61 Resp: 1446367
 Ion Ratio Lower Upper
 61 100
 96 67.3 53.2 79.8
 98 45.3 34.4 51.6

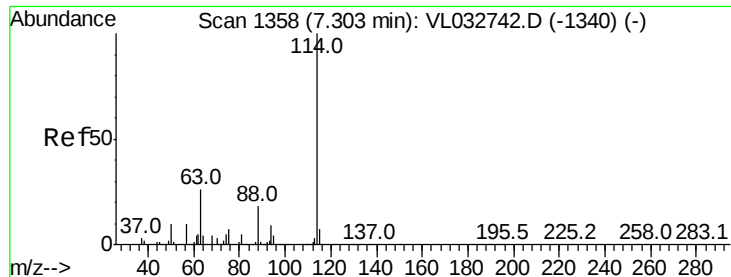


#32

1,1,1-Trichloroethane
 Concen: 9.278 ppbv
 RT: 6.63 min Scan# 1149
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Tgt Ion: 97 Resp: 2509400
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.8 77.6
 61 47.9 39.7 59.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

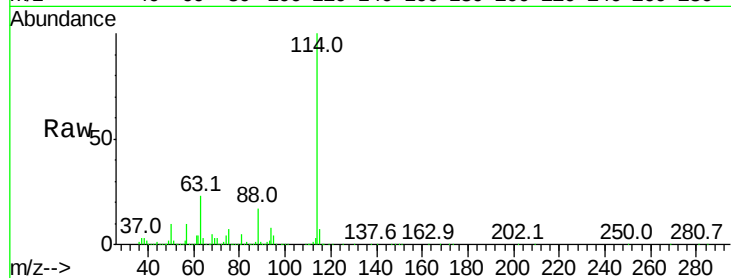
Tgt Ion:114 Resp: 3915570

Ion Ratio Lower Upper

114 100

63 24.1 20.9 31.3

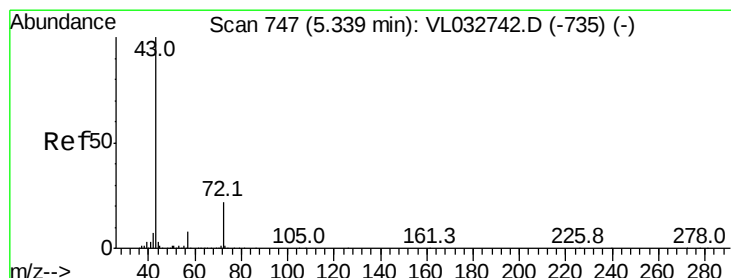
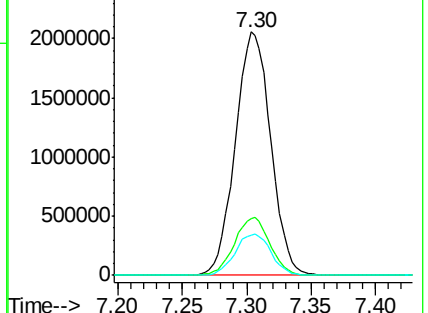
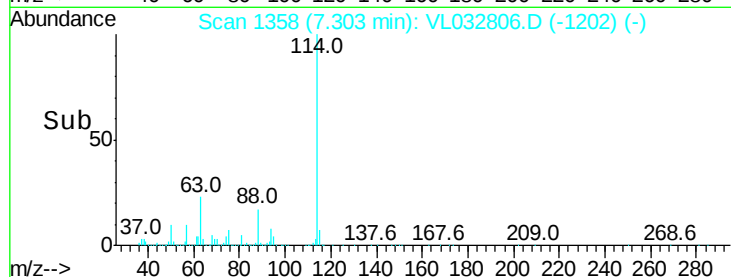
88 17.3 14.4 21.6



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: 9.889 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.00 min

Lab File: VL032806.D

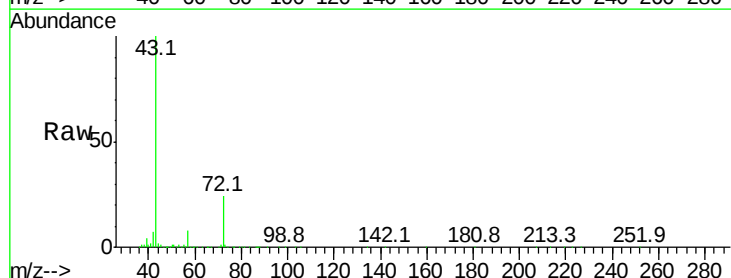
Acq: 21 Nov 2018 9:10

Tgt Ion: 43 Resp: 2008246

Ion Ratio Lower Upper

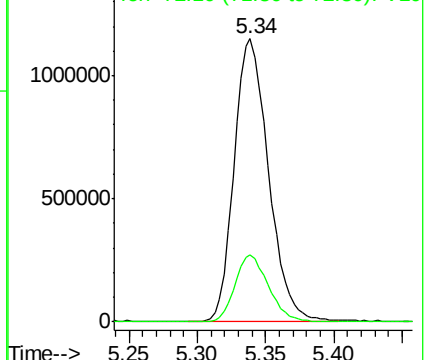
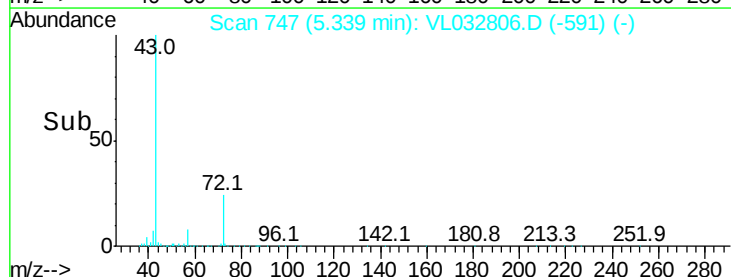
43 100

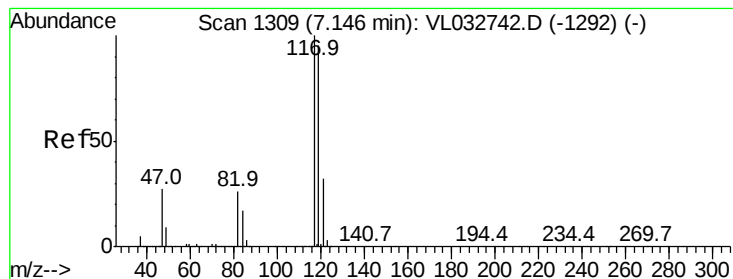
72 23.3 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.664 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

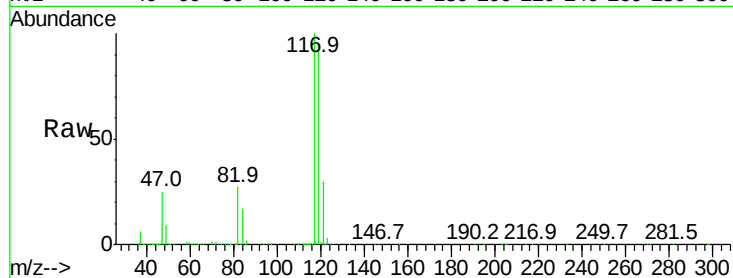
Tgt Ion:117 Resp: 2727268

Ion Ratio Lower Upper

117 100

119 95.3 76.1 114.1

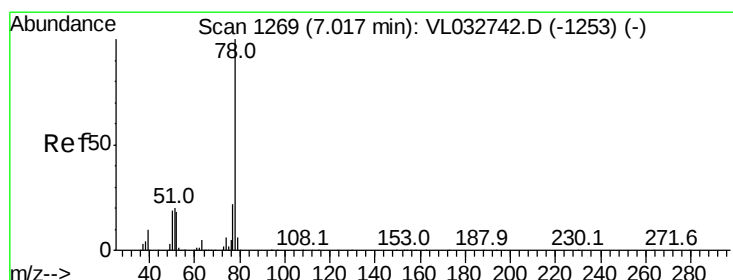
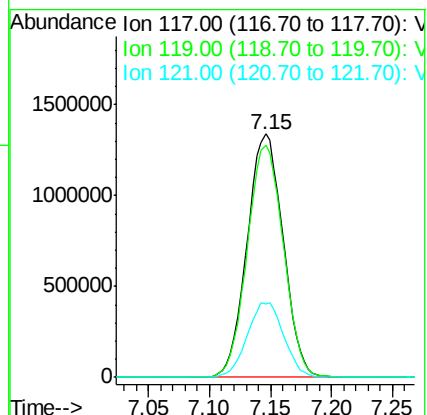
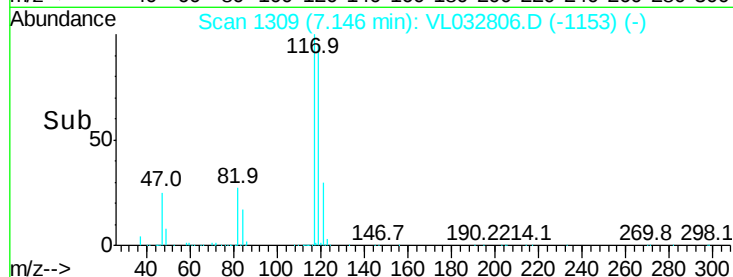
121 30.0 25.4 38.0



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: 10.003 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

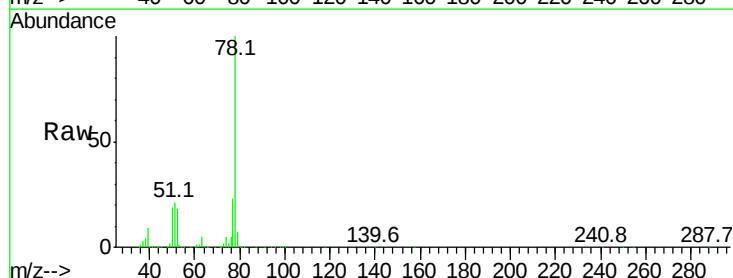
Tgt Ion: 78 Resp: 3118853

Ion Ratio Lower Upper

78 100

77 23.1 17.8 26.8

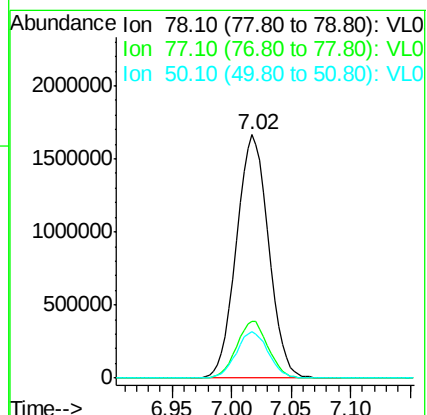
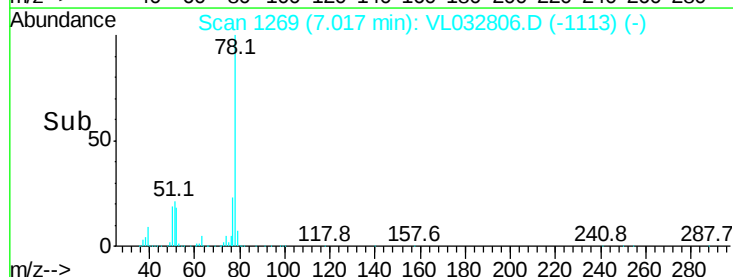
50 18.9 15.4 23.0

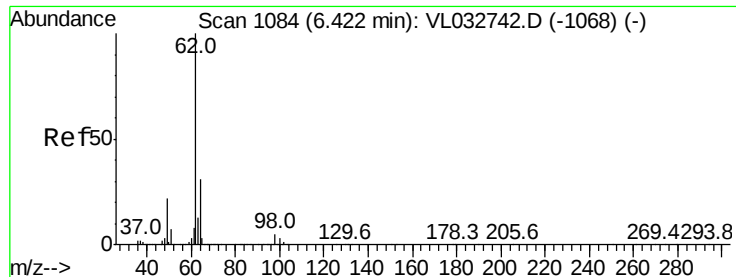


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

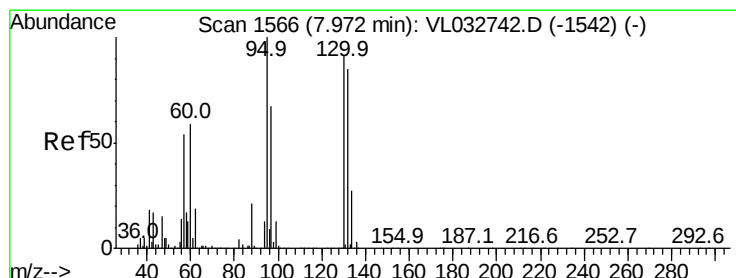
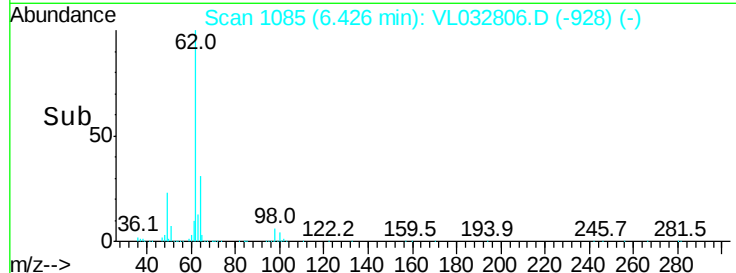
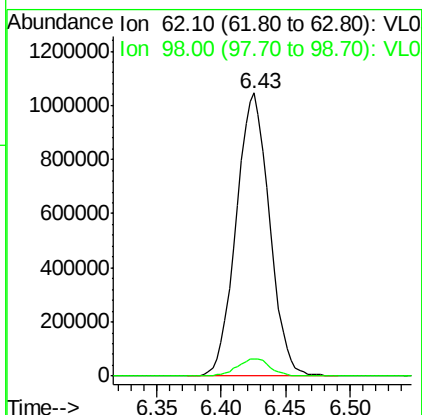
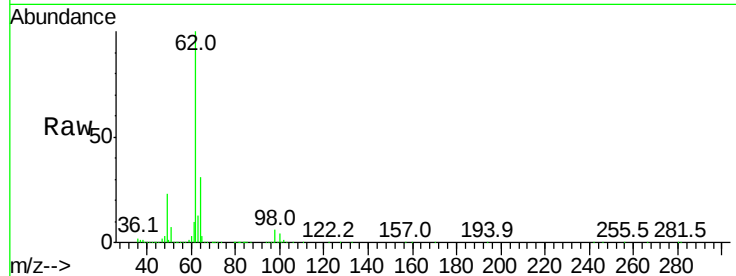




#37
 1,2-Dichloroethane
 Concen: 8.959 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

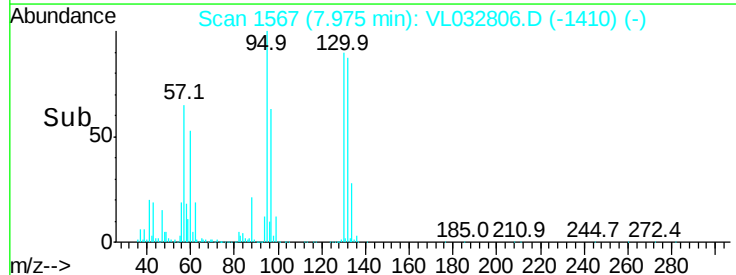
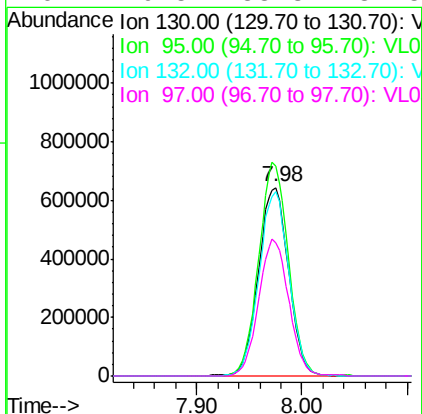
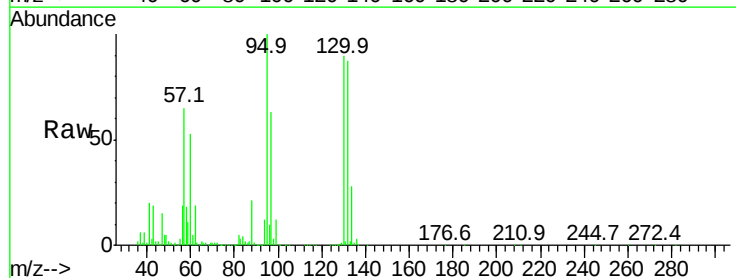
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

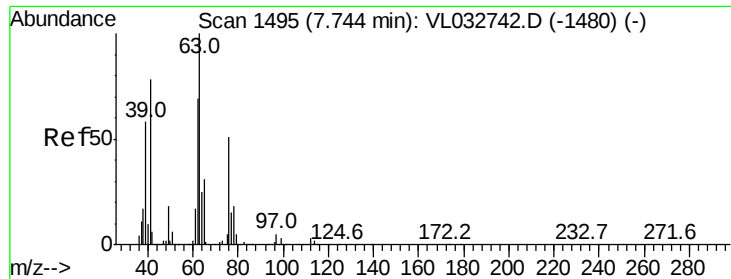
Tgt Ion: 62 Resp: 1880349
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.5 6.7



#38
 Trichloroethene
 Concen: 10.187 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Tgt Ion: 130 Resp: 1285453
 Ion Ratio Lower Upper
 130 100
 95 111.7 87.7 131.5
 132 97.6 74.6 111.8
 97 70.5 58.3 87.5

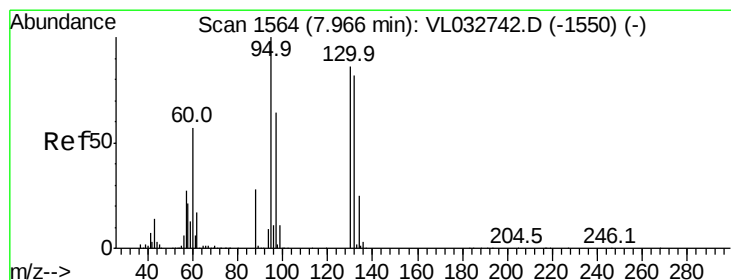
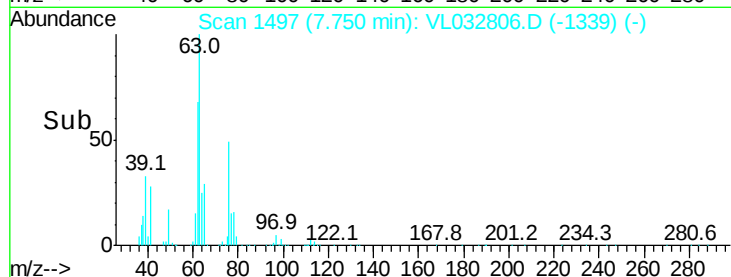
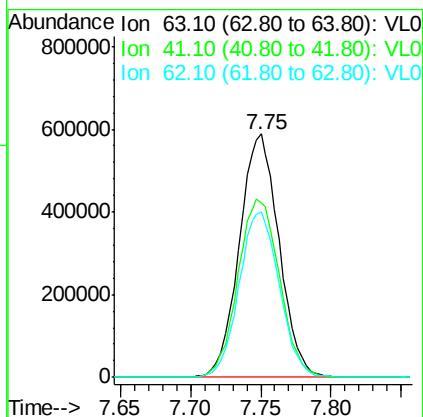
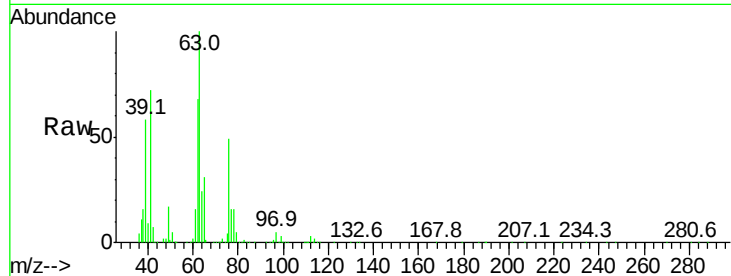




#39
 1,2-Dichloropropane
 Concen: 9.718 ppbv
 RT: 7.75 min Scan# 1497
 Delta R.T. 0.01 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

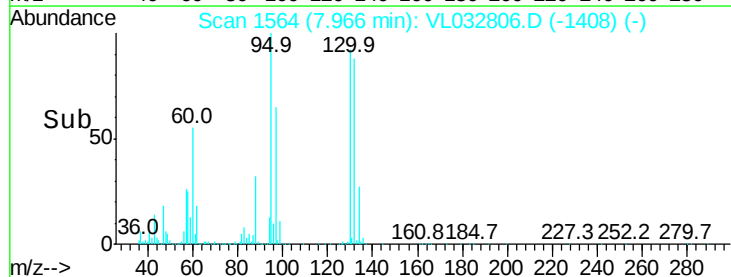
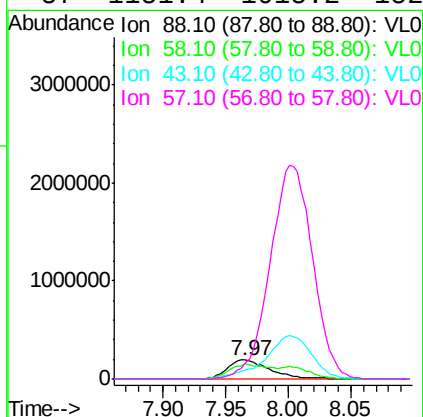
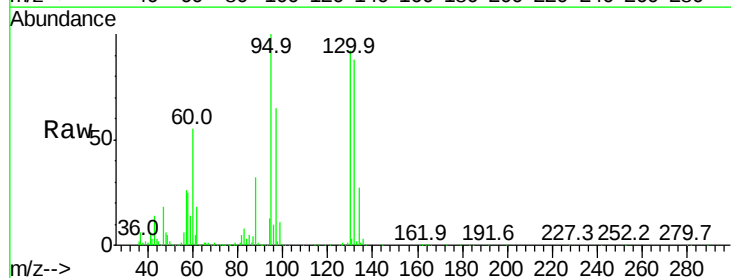
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

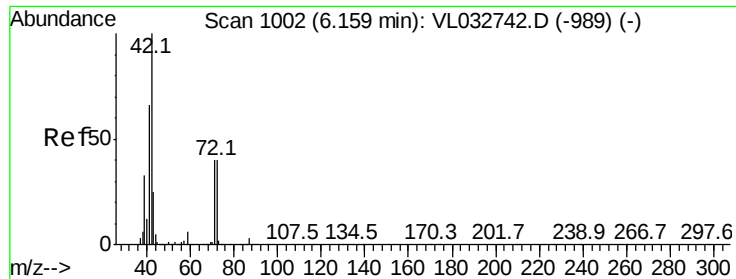
Tgt Ion: 63 Resp: 1154438
 Ion Ratio Lower Upper
 63 100
 41 71.5 62.0 93.0
 62 67.7 55.4 83.2



#40
 1,4-Dioxane
 Concen: 10.566 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Tgt Ion: 88 Resp: 448317
 Ion Ratio Lower Upper
 88 100
 58 124.2 105.3 157.9
 43 254.1 226.1 339.1
 57 1151.4 1015.2 1522.8





#41

Tetrahydrofuran

Concen: 10.055 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

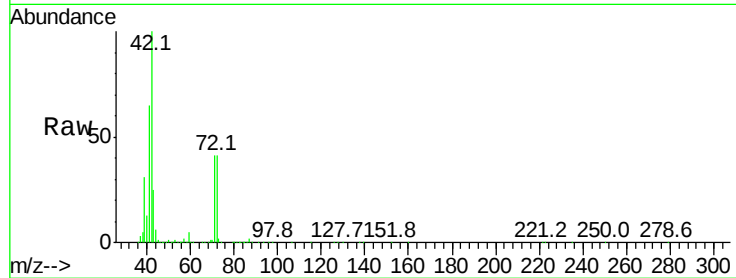
Tgt Ion: 42 Resp: 1171308

Ion Ratio Lower Upper

42 100

72 41.0 32.4 48.6

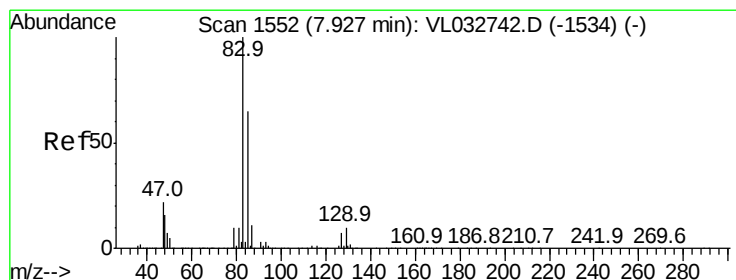
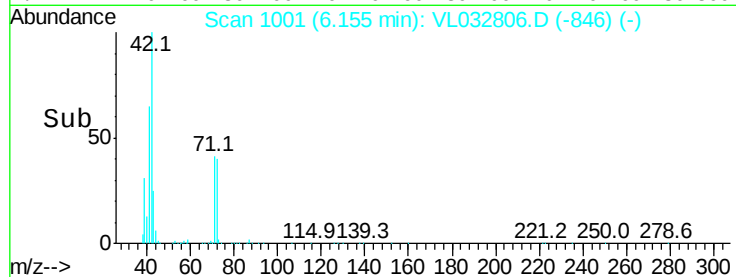
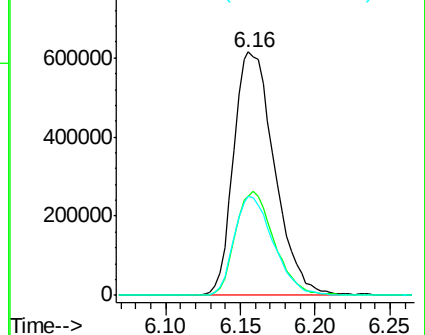
71 39.3 31.6 47.4



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: 9.237 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

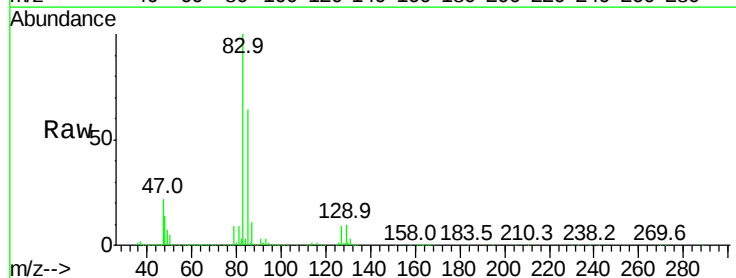
Tgt Ion: 83 Resp: 2628237

Ion Ratio Lower Upper

83 100

85 64.3 51.8 77.8

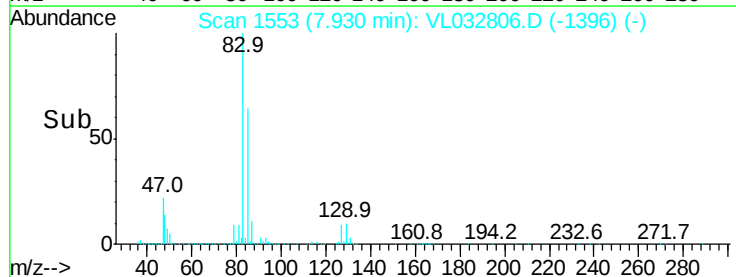
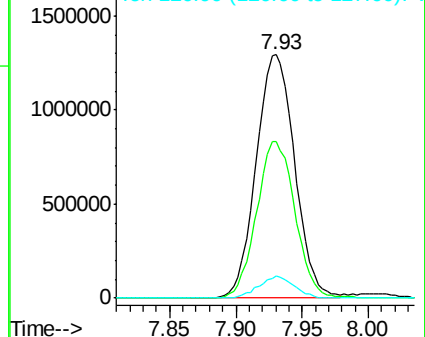
127 9.0 5.9 8.9#

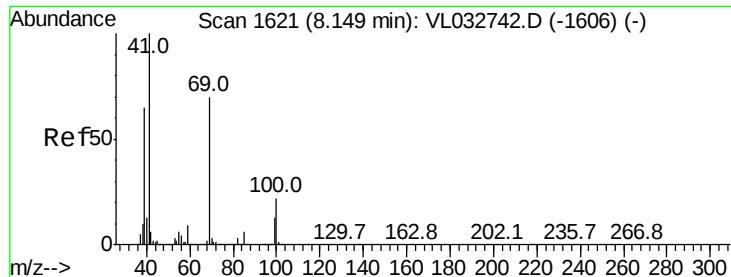


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 10.513 ppbv

RT: 8.15 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

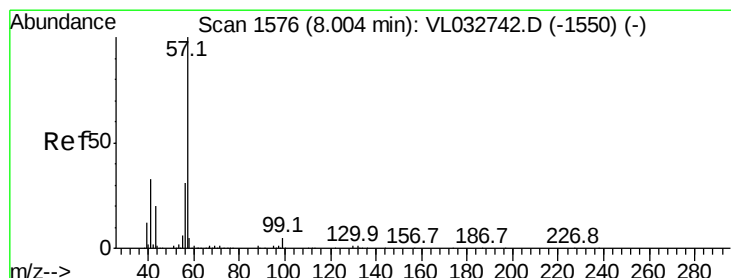
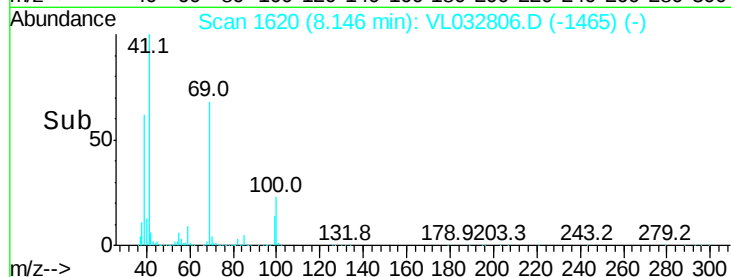
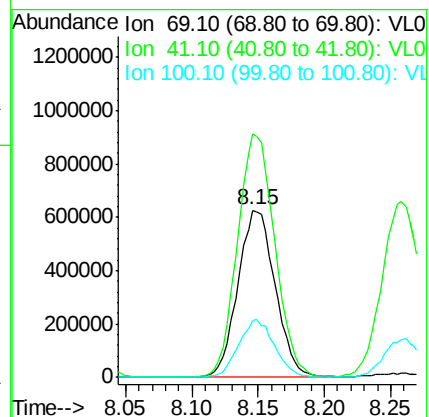
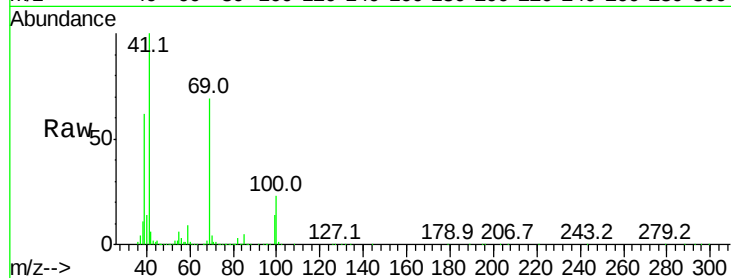
Tgt Ion: 69 Resp: 1223814

Ion Ratio Lower Upper

69 100

41 145.8 115.0 172.4

100 33.4 25.4 38.0



#44

2,2,4-Trimethylpentane

Concen: 9.883 ppbv

RT: 8.00 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

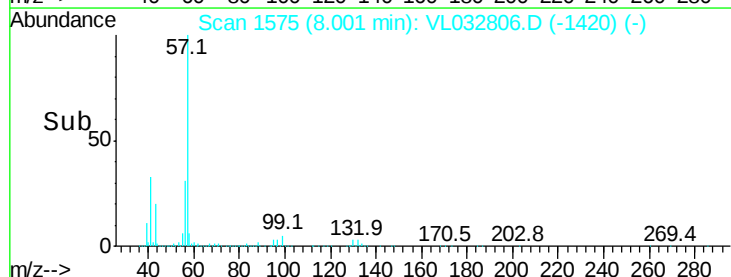
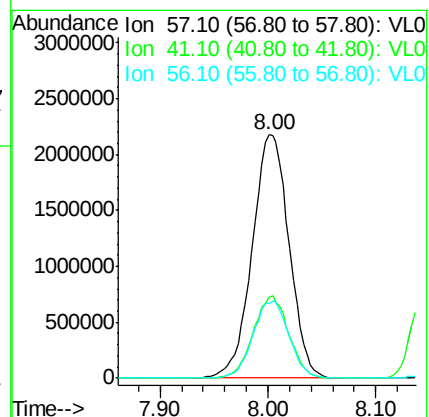
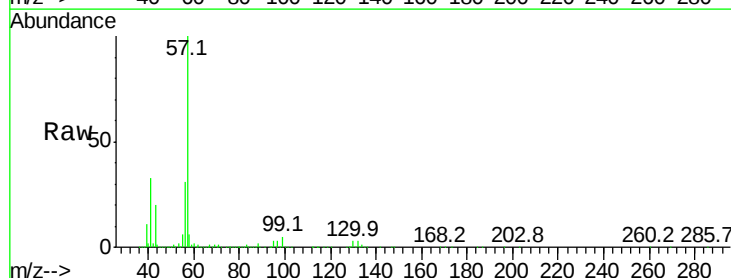
Tgt Ion: 57 Resp: 5149701

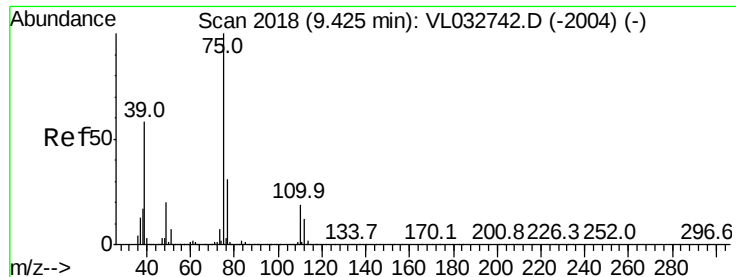
Ion Ratio Lower Upper

57 100

41 32.5 26.6 39.8

56 31.0 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 11.282 ppbv

RT: 9.43 min Scan# 2019

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

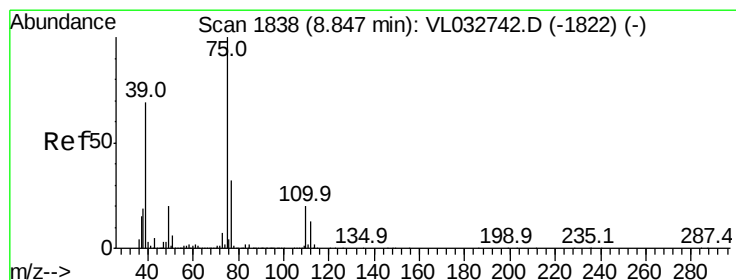
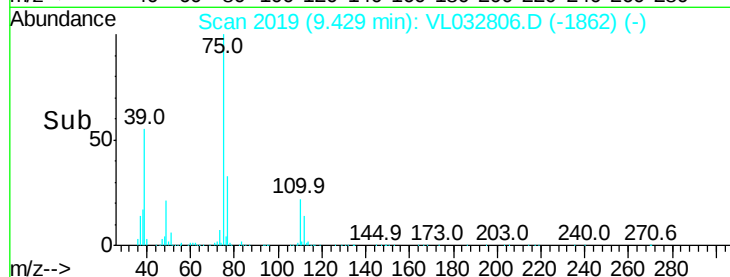
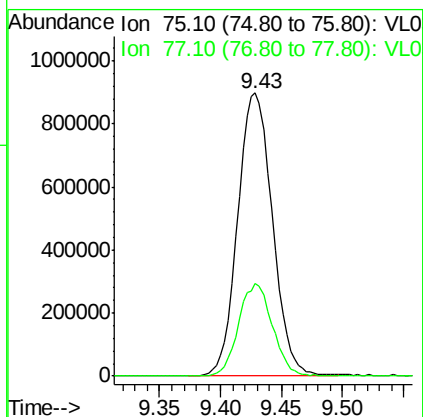
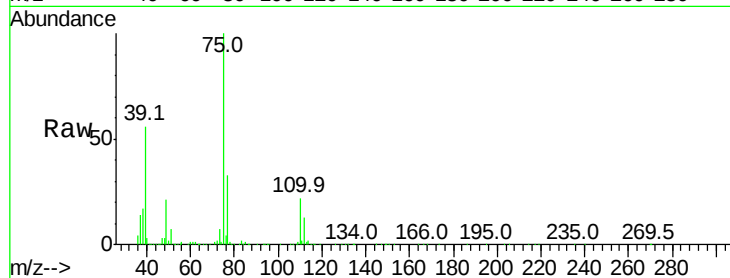
VSTDCCC010EC

Tgt Ion: 75 Resp: 1762235

Ion Ratio Lower Upper

75 100

77 32.8 24.6 36.8



#46

cis-1,3-Dichloropropene

Concen: 10.811 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

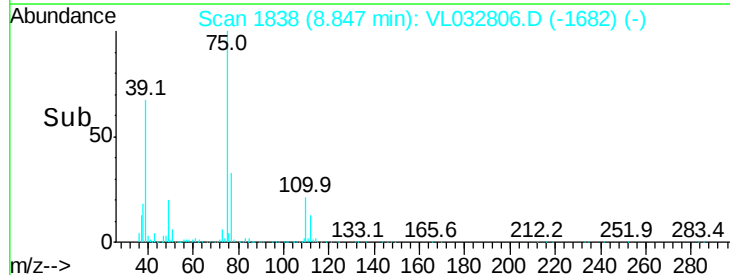
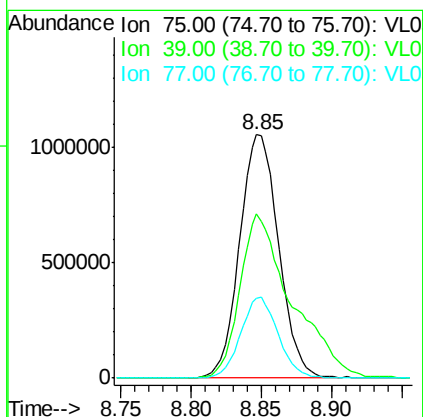
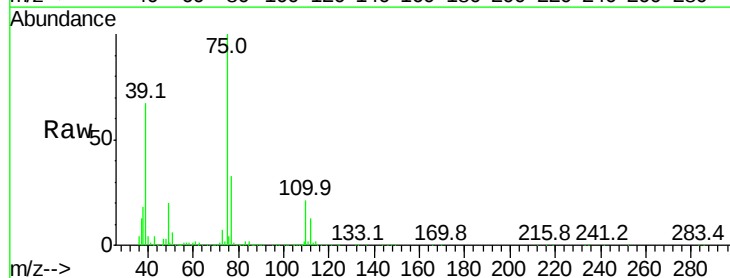
Tgt Ion: 75 Resp: 2040131

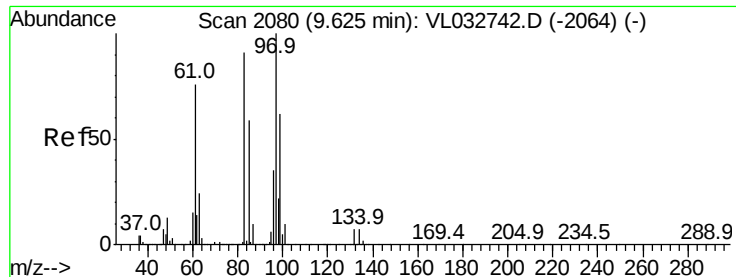
Ion Ratio Lower Upper

75 100

39 67.3 55.2 82.8

77 32.6 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 9.675 ppbv

RT: 9.63 min Scan# 2081

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 97 Resp: 1359047

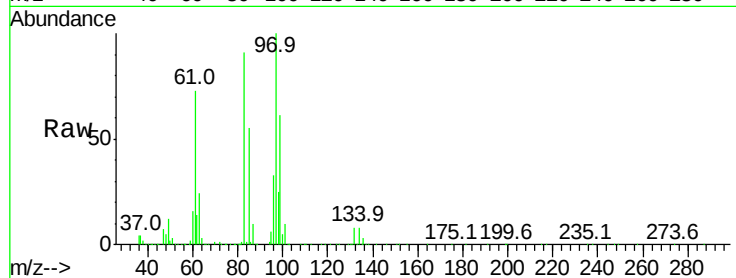
Ion Ratio Lower Upper

97 100

83 90.8 73.0 109.4

85 55.0 47.0 70.4

99 61.3 49.9 74.9

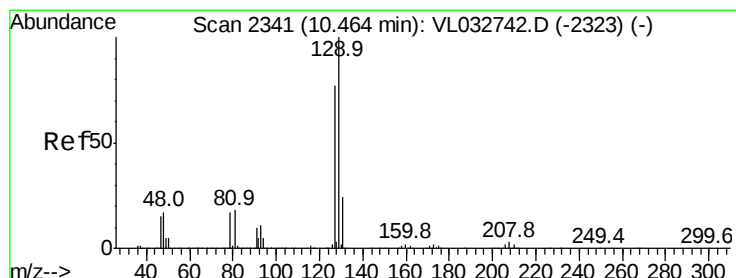
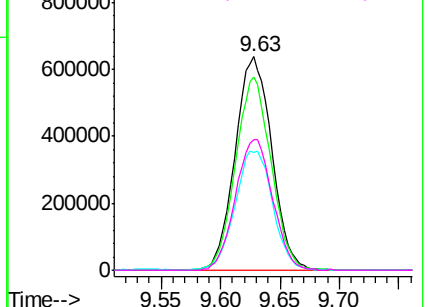
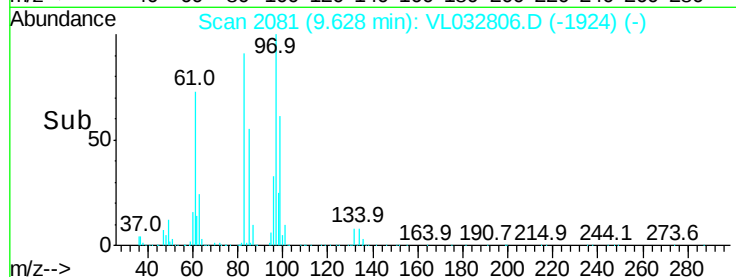


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.648 ppbv

RT: 10.46 min Scan# 2341

Delta R.T. 0.00 min

Lab File: VL032806.D

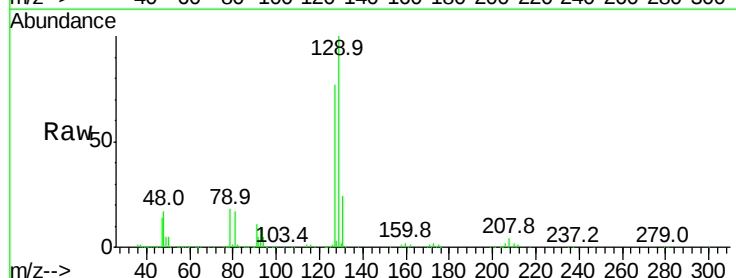
Acq: 21 Nov 2018 9:10

Tgt Ion: 129 Resp: 2303397

Ion Ratio Lower Upper

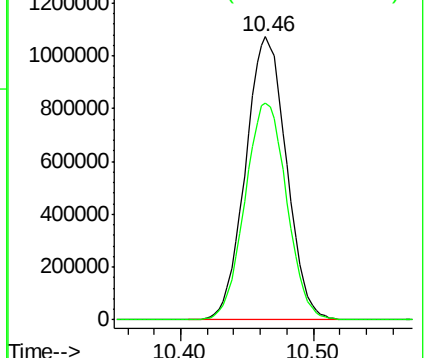
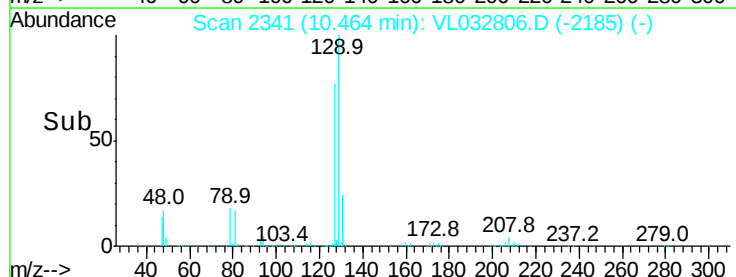
129 100

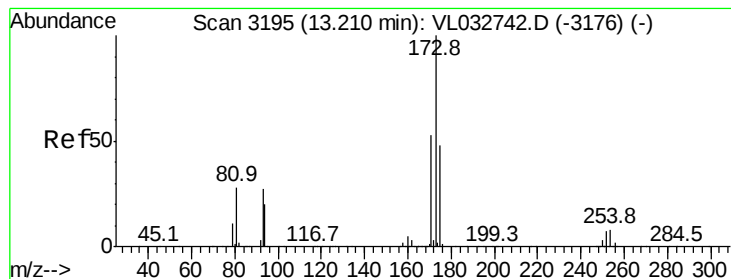
127 78.3 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.560 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

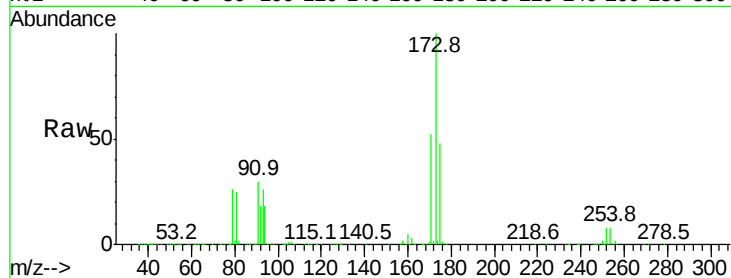
Tgt Ion:173 Resp: 1884939

Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.0

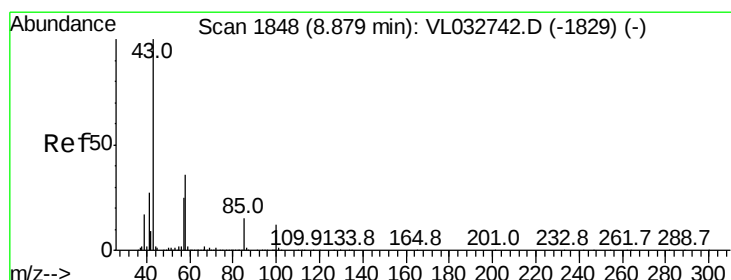
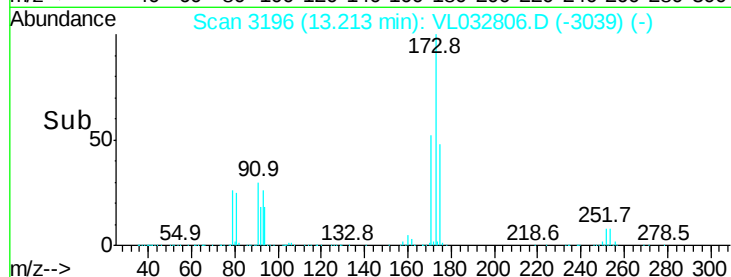
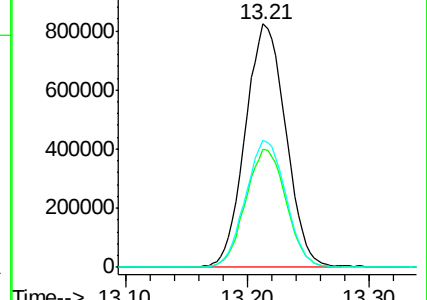
171 52.3 42.0 63.0



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: 9.885 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VL032806.D

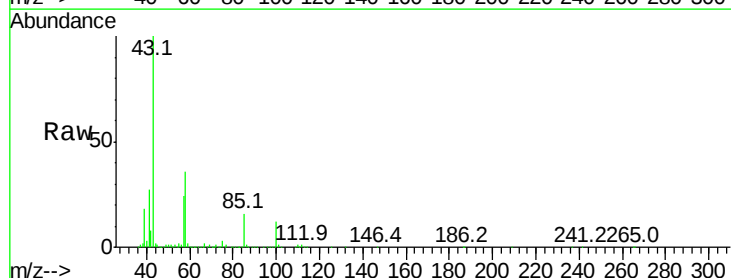
Acq: 21 Nov 2018 9:10

Tgt Ion: 43 Resp: 3135387

Ion Ratio Lower Upper

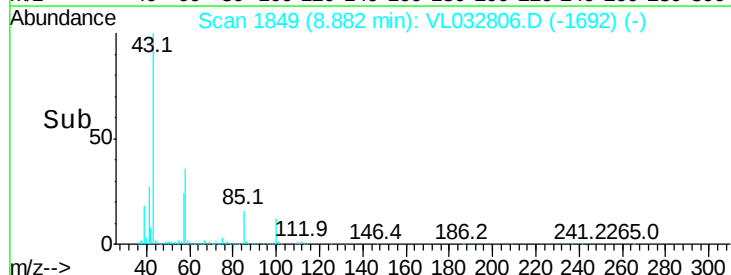
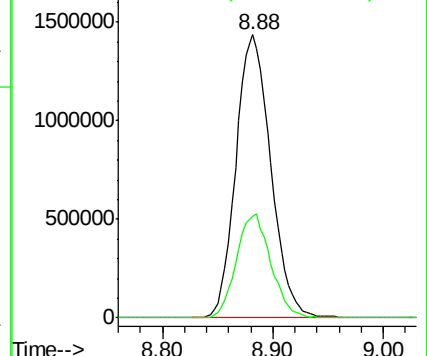
43 100

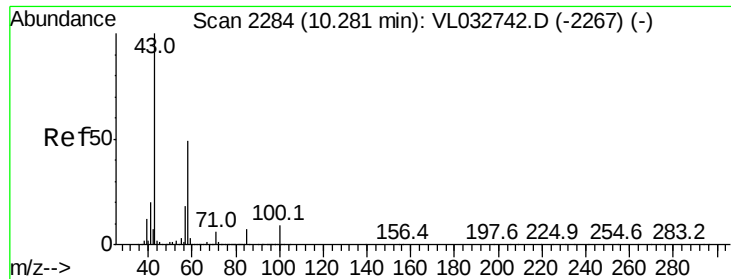
58 36.3 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

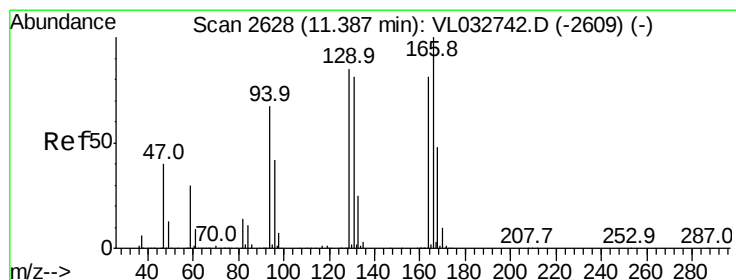
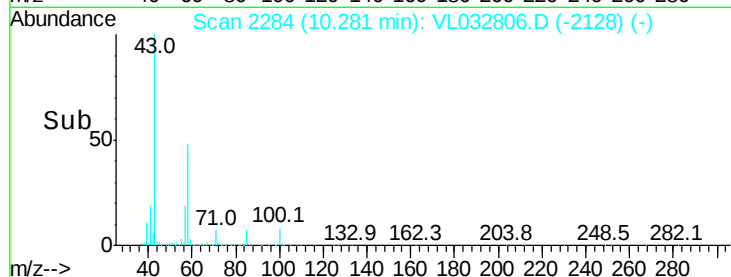
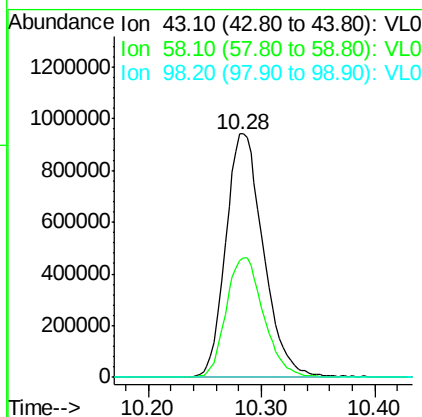
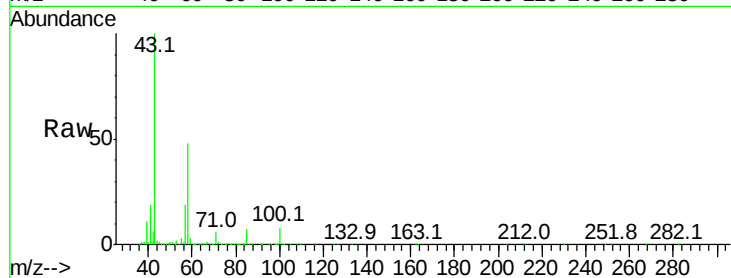




#51
2-Hexanone
Concen: 10.639 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. 0.00 min
Lab File: VL032806.D
Acq: 21 Nov 2018 9:10

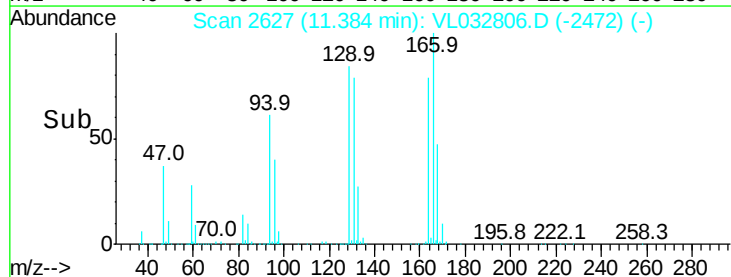
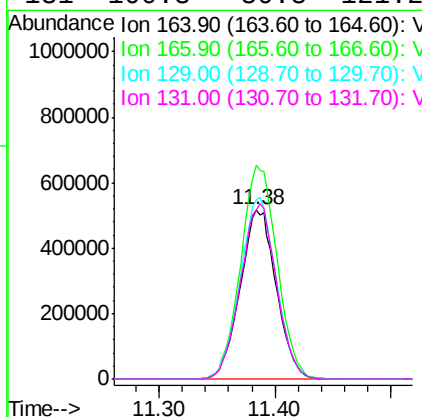
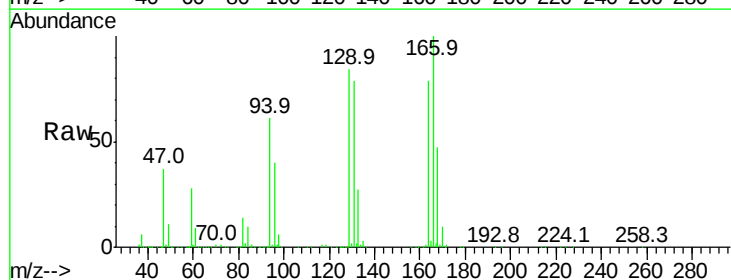
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

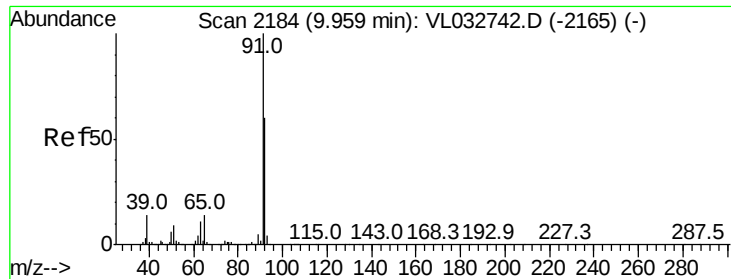
Tgt Ion: 43 Resp: 2174216
Ion Ratio Lower Upper
43 100
58 49.3 38.9 58.3
98 0.4 0.2 0.4#



#52
Tetrachloroethene
Concen: 10.273 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032806.D
Acq: 21 Nov 2018 9:10

Tgt Ion: 164 Resp: 1114295
Ion Ratio Lower Upper
164 100
166 126.3 99.3 148.9
129 106.2 83.9 125.9
131 100.3 80.8 121.2





#53

Toluene

Concen: 11.089 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

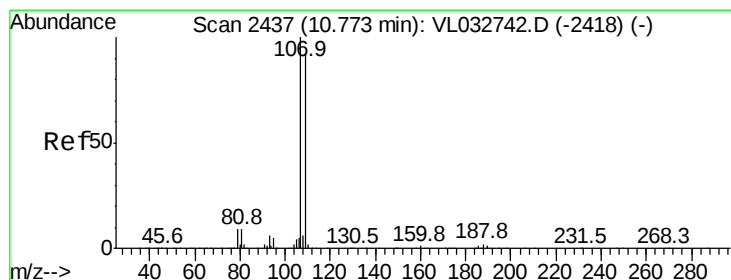
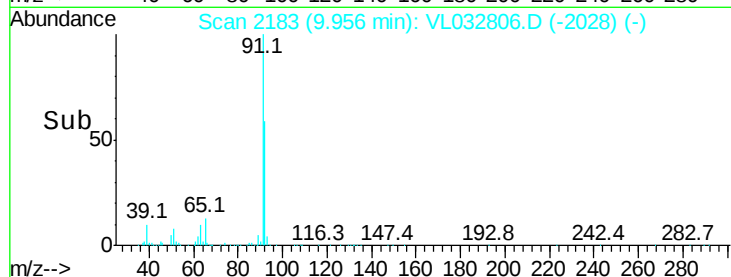
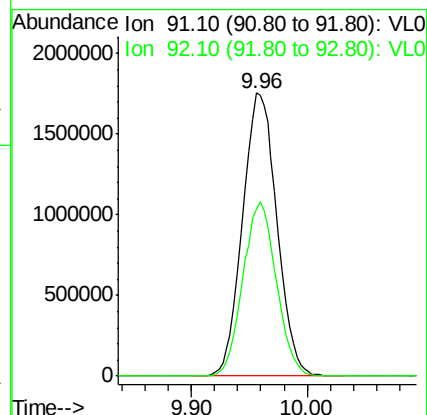
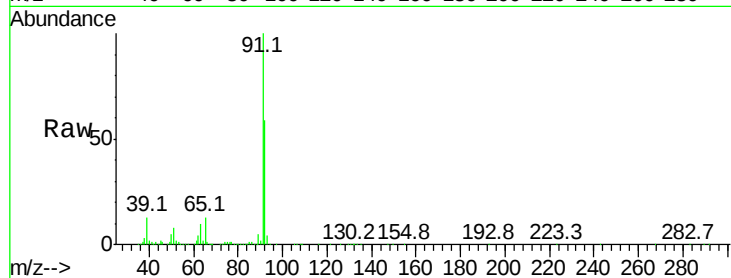
VSTDCCC010EC

Tgt Ion: 91 Resp: 3607051

Ion Ratio Lower Upper

91 100

92 60.1 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.946 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL032806.D

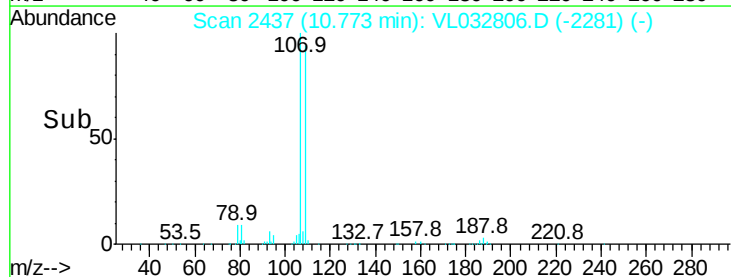
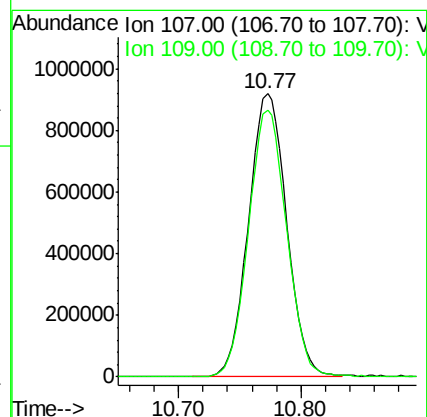
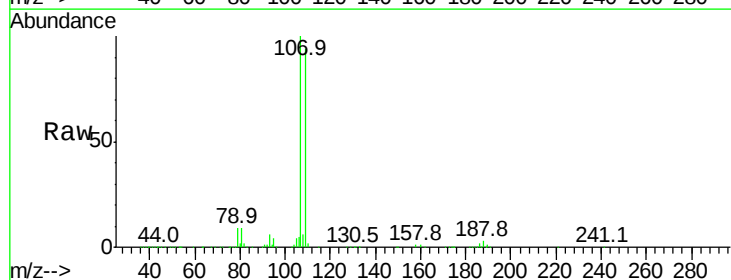
Acq: 21 Nov 2018 9:10

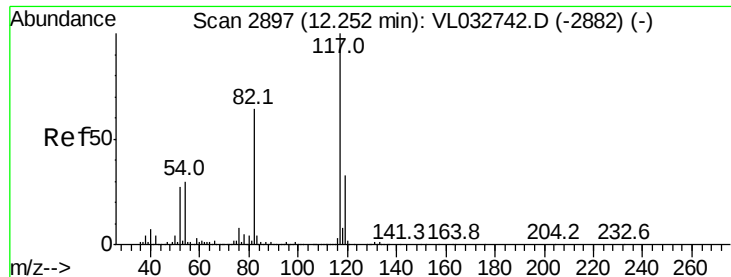
Tgt Ion: 107 Resp: 1975065

Ion Ratio Lower Upper

107 100

109 94.4 73.8 110.8

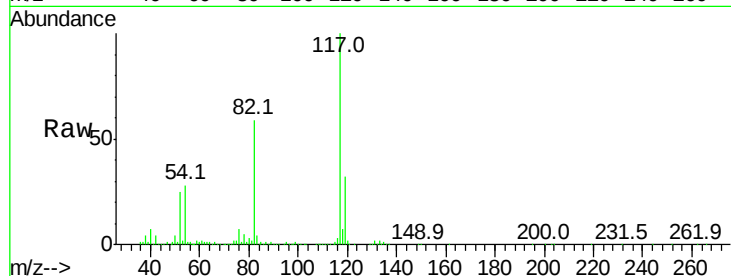




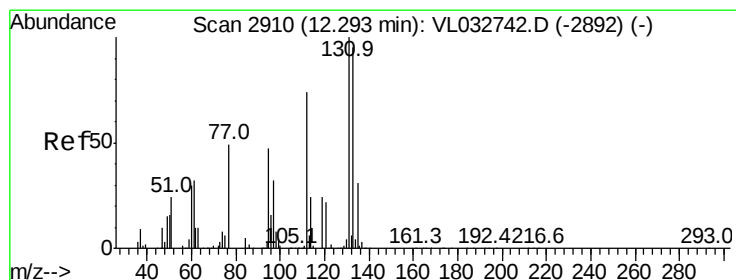
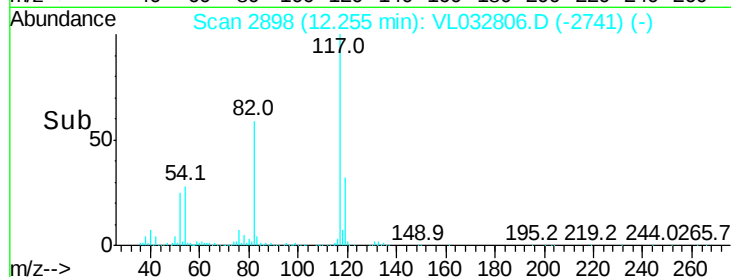
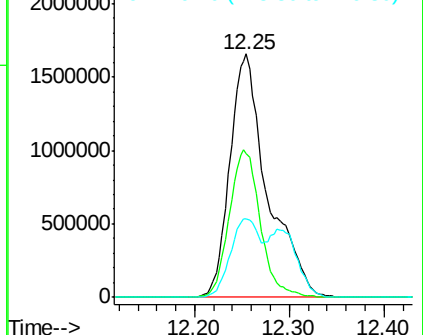
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032806.D
Acq: 21 Nov 2018 9:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:117 Resp: 4588601
Ion Ratio Lower Upper
117 100
82 50.1 51.0 76.6#
119 26.0 28.0 42.0#

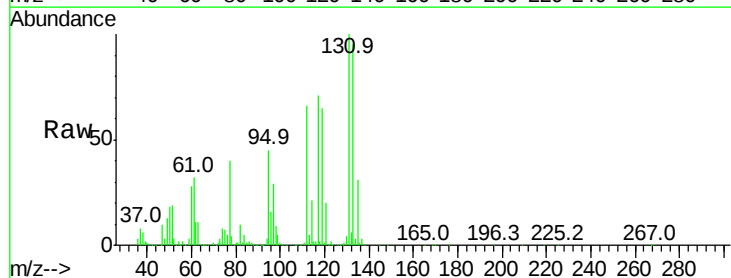


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

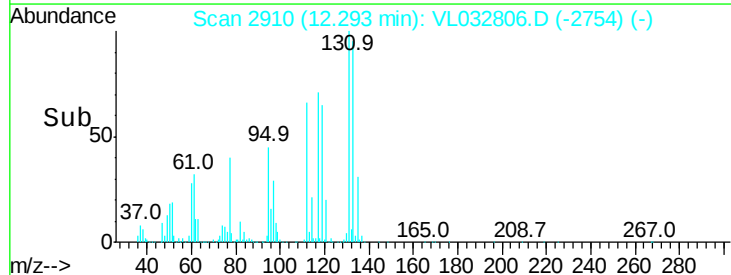
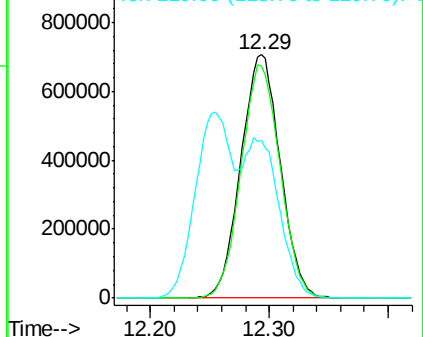


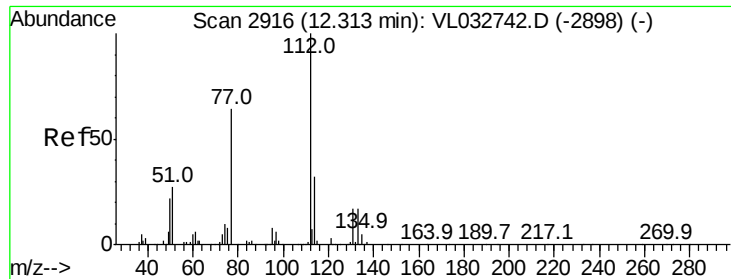
#56
1,1,1,2-Tetrachloroethane
Concen: 7.565 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL032806.D
Acq: 21 Nov 2018 9:10

Tgt Ion:131 Resp: 1618971
Ion Ratio Lower Upper
131 100
133 95.2 75.8 113.6
119 55.0 45.2 67.8



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: 7.735 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

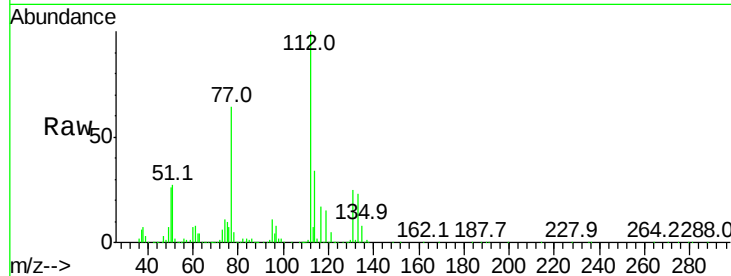
Tgt Ion:112 Resp: 2717095

Ion Ratio Lower Upper

112 100

77 63.6 52.3 78.5

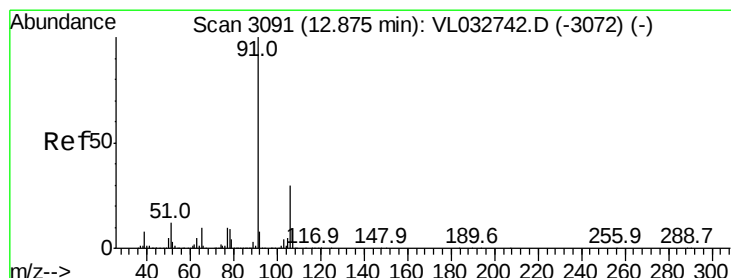
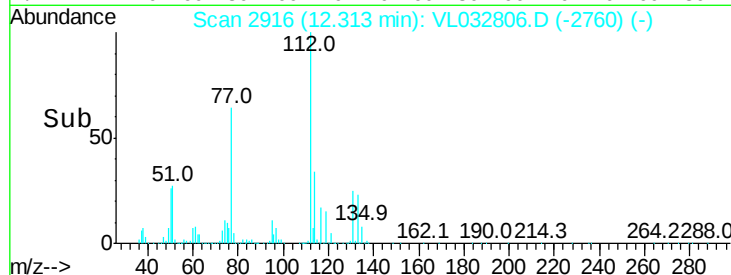
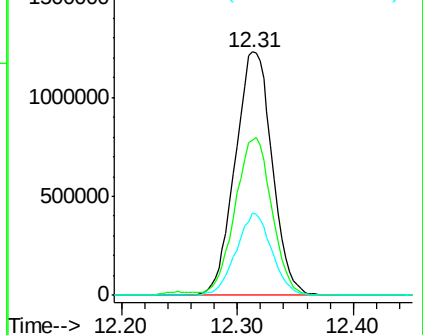
114 33.8 28.4 34.8



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: 8.542 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL032806.D

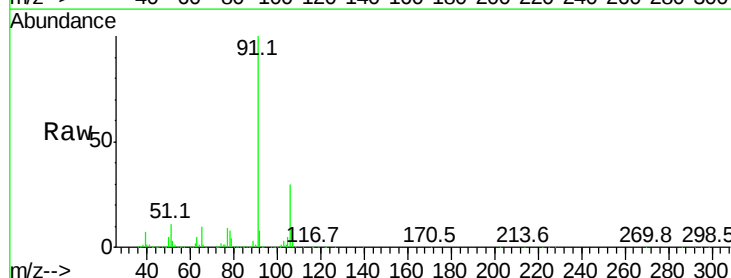
Acq: 21 Nov 2018 9:10

Tgt Ion: 91 Resp: 4717174

Ion Ratio Lower Upper

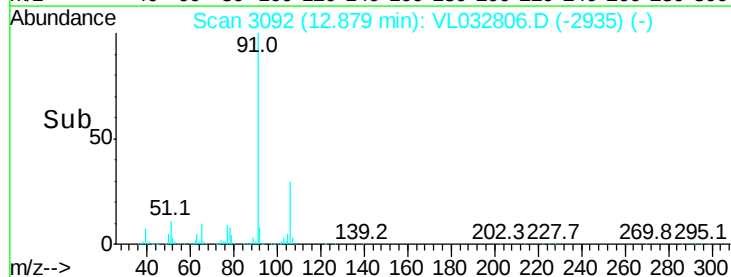
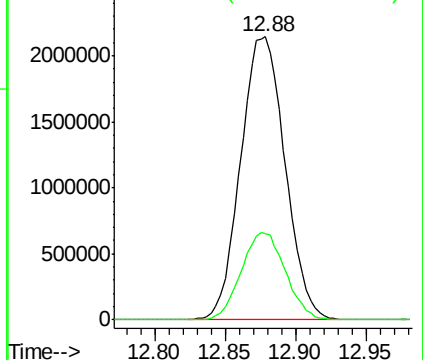
91 100

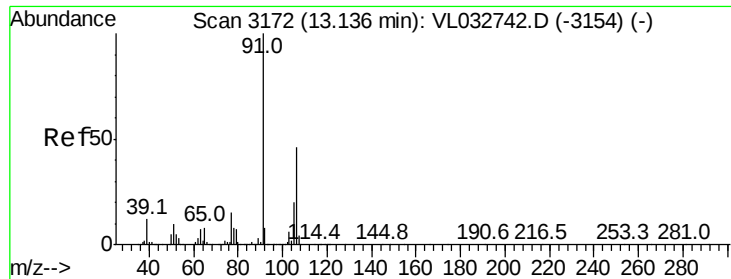
106 30.4 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.080 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

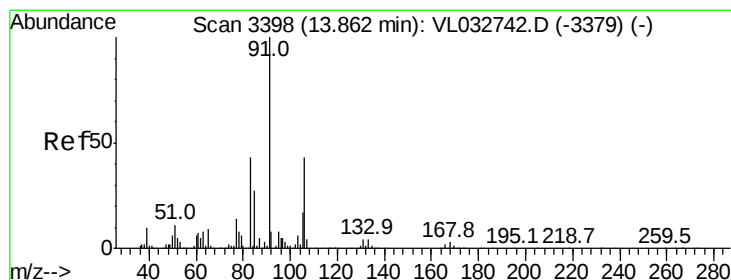
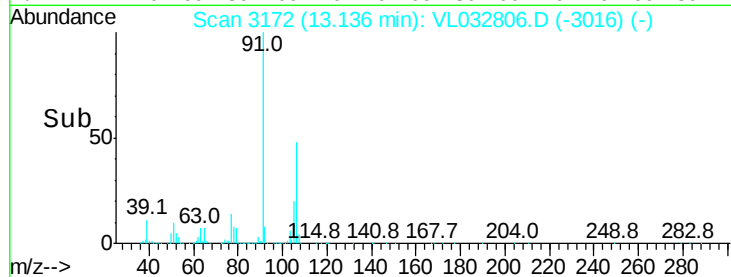
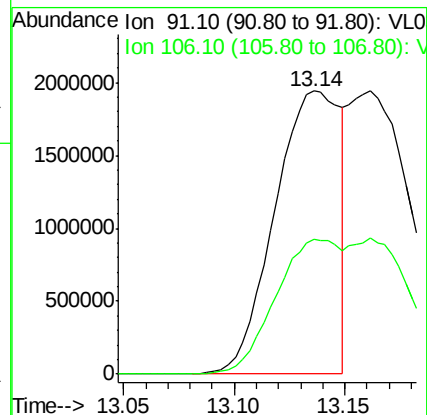
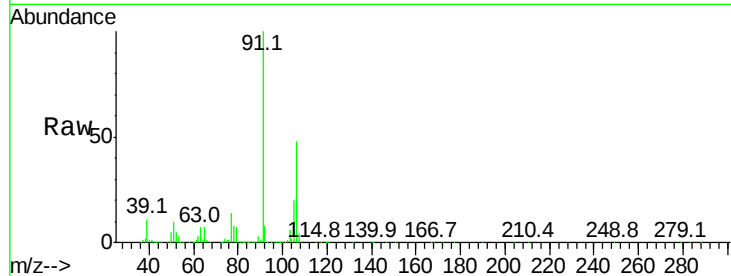
VSTDCCC010EC

Tgt Ion: 91 Resp: 3972154

Ion Ratio Lower Upper

91 100

106 0.0 36.1 54.1#



#60

o-Xylene

Concen: 7.678 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. 0.00 min

Lab File: VL032806.D

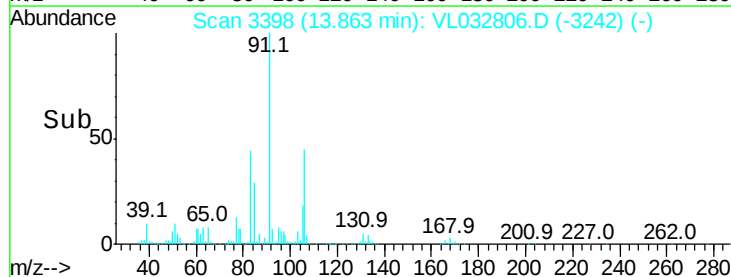
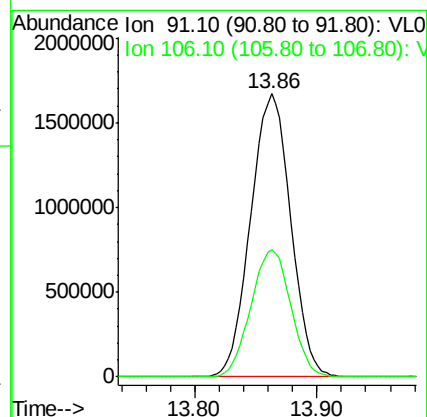
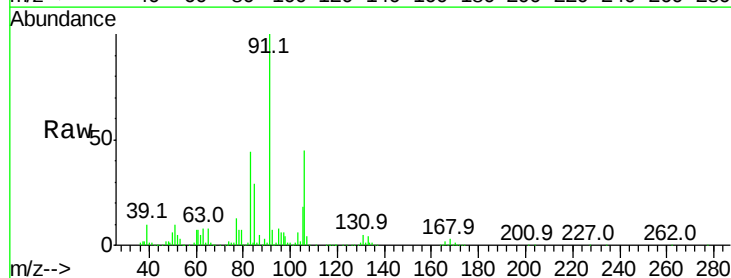
Acq: 21 Nov 2018 9:10

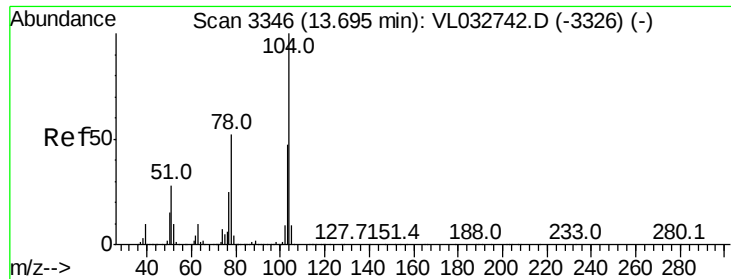
Tgt Ion: 91 Resp: 3795426

Ion Ratio Lower Upper

91 100

106 44.7 21.9 65.7





#61

Styrene

Concen: 8.910 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

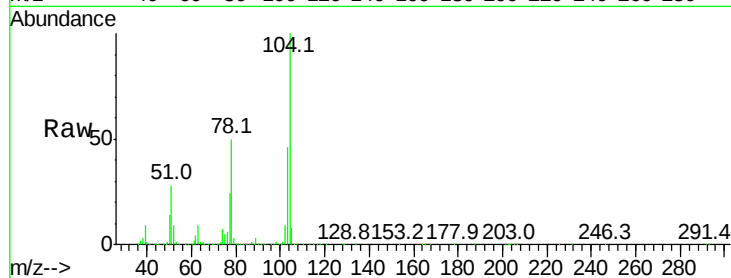
Tgt Ion:104 Resp: 2866918

Ion Ratio Lower Upper

104 100

78 50.8 42.2 63.4

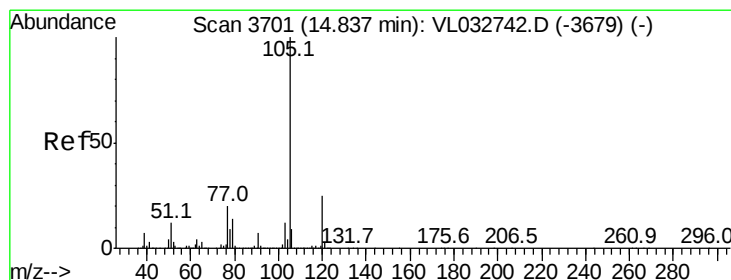
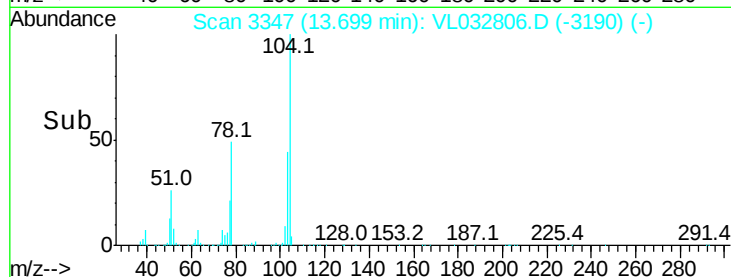
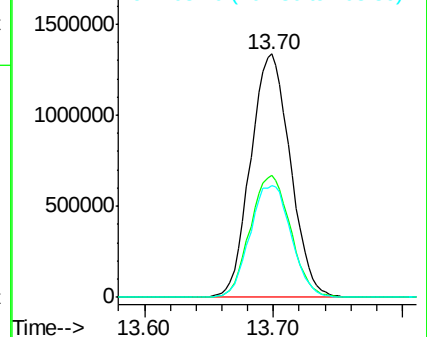
103 47.9 38.2 57.2



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: 8.126 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL032806.D

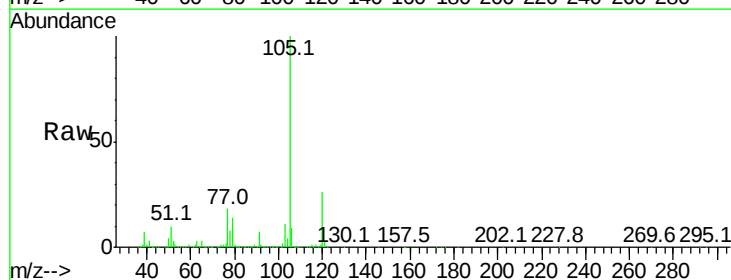
Acq: 21 Nov 2018 9:10

Tgt Ion:105 Resp: 5429320

Ion Ratio Lower Upper

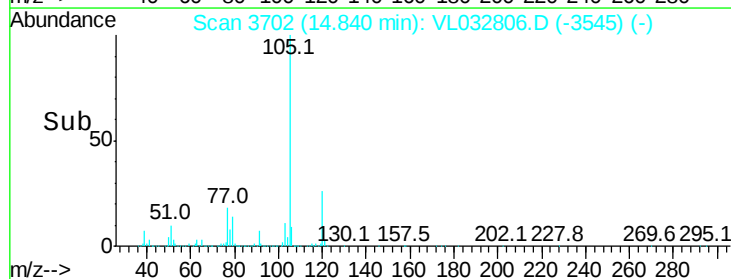
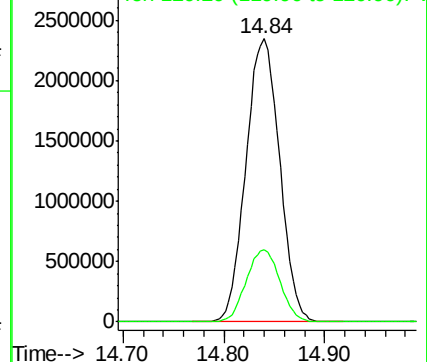
105 100

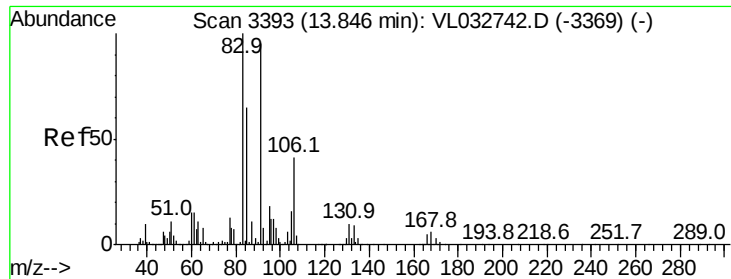
120 25.5 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

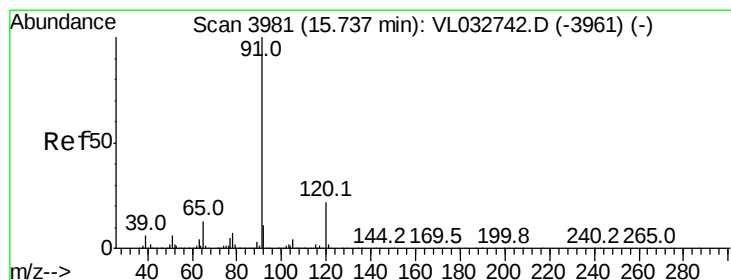
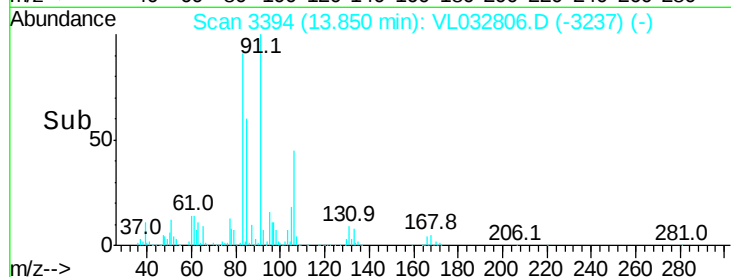
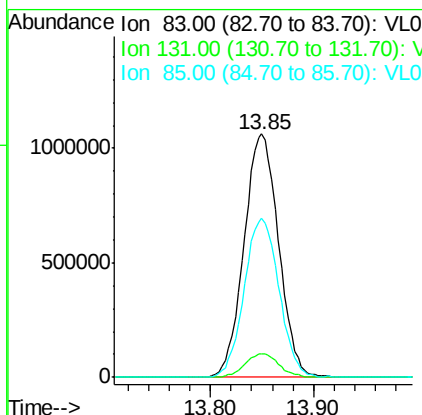
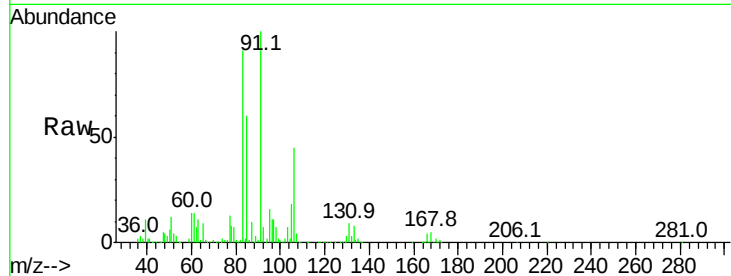




#63
 1,1,2,2-Tetrachloroethane
 Concen: 6.429 ppbv
 RT: 13.85 min Scan# 3394
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

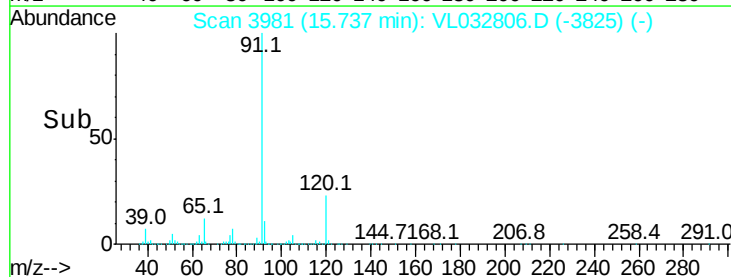
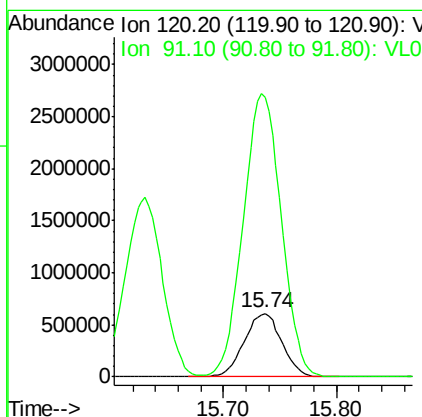
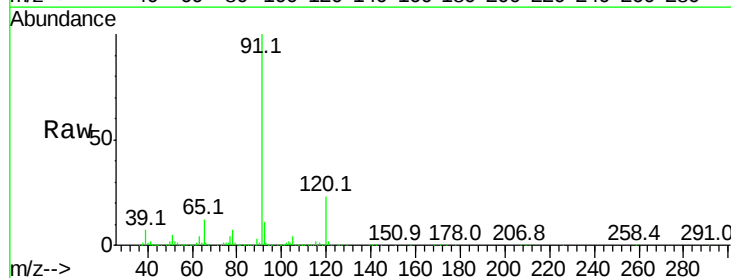
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

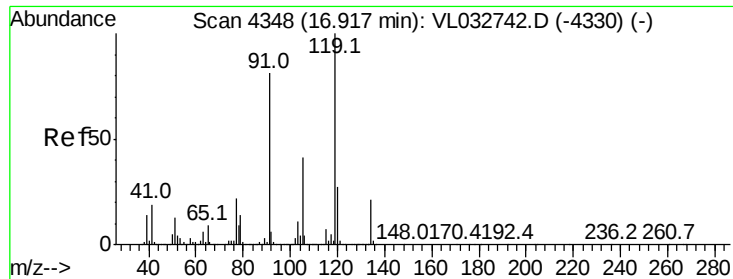
Tgt Ion: 83 Resp: 2477269
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.7 14.1
 85 65.8 32.5 97.4



#64
 n-propylbenzene
 Concen: 7.980 ppbv
 RT: 15.74 min Scan# 3981
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Tgt Ion: 120 Resp: 1402347
 Ion Ratio Lower Upper
 120 100
 91 454.0 381.7 572.5

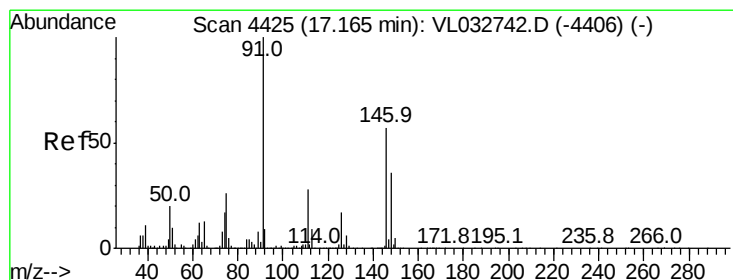
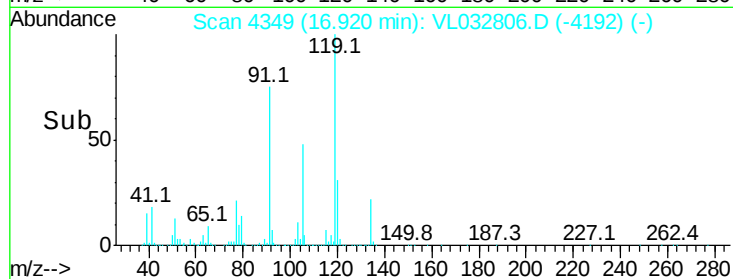
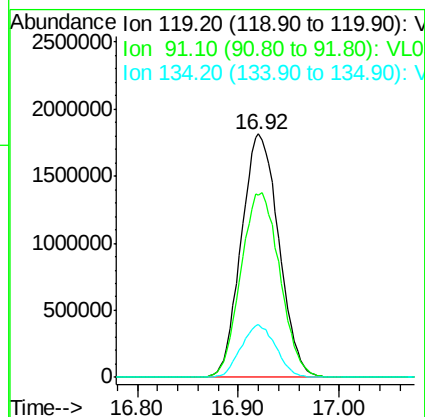
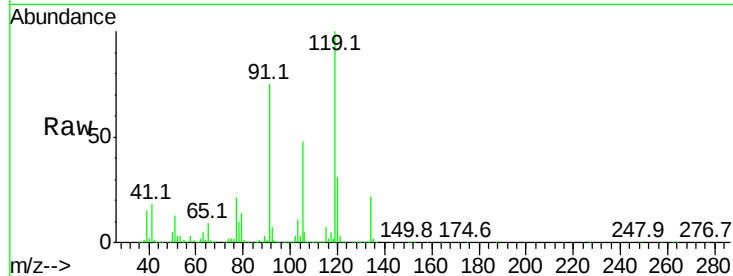




#65
tert-Butylbenzene
Concen: 7.806 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. 0.00 min
Lab File: VL032806.D
Acq: 21 Nov 2018 9:10

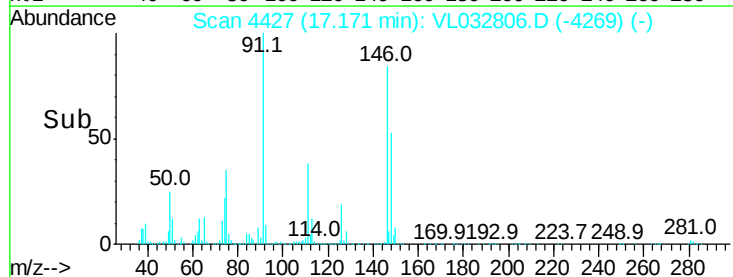
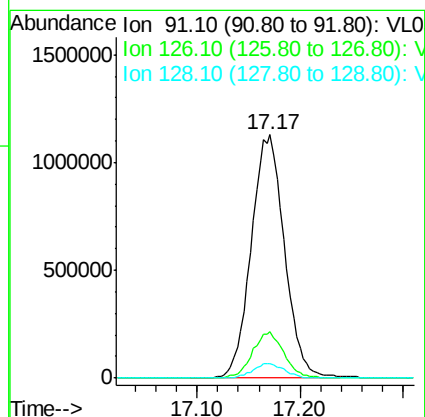
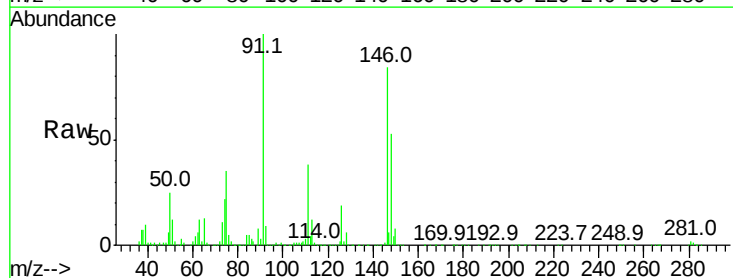
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

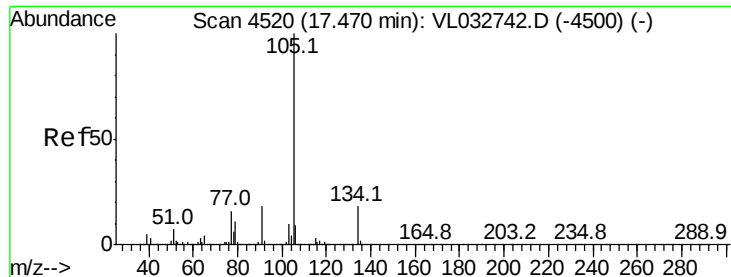
Tgt Ion: 119 Resp: 4675398
Ion Ratio Lower Upper
119 100
91 79.0 65.6 98.4
134 20.1 15.9 23.9



#66
Benzyl Chloride
Concen: 7.636 ppbv
RT: 17.17 min Scan# 4427
Delta R.T. 0.01 min
Lab File: VL032806.D
Acq: 21 Nov 2018 9:10

Tgt Ion: 91 Resp: 2528304
Ion Ratio Lower Upper
91 100
126 18.0 14.2 21.2
128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 7.606 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

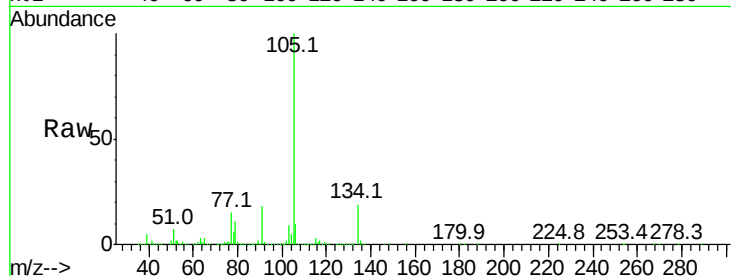
VSTDCCC010EC

Tgt Ion:105 Resp: 6564848

Ion Ratio Lower Upper

105 100

134 18.5 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.47

2500000

2000000

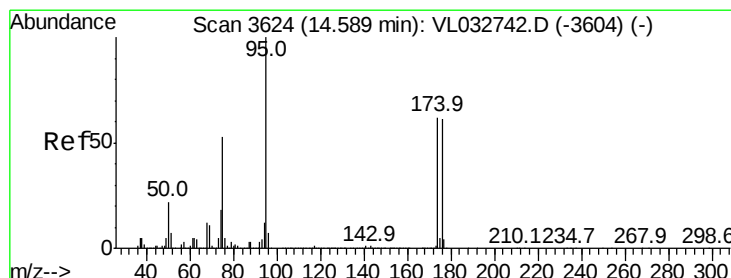
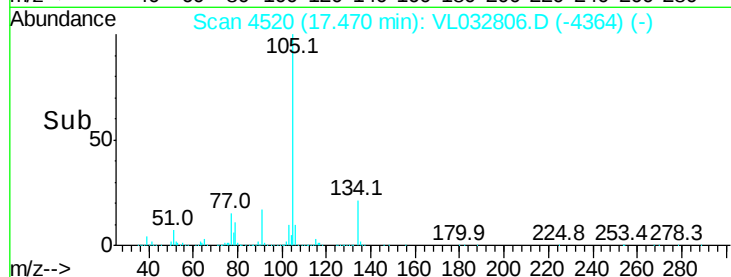
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 7.824 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

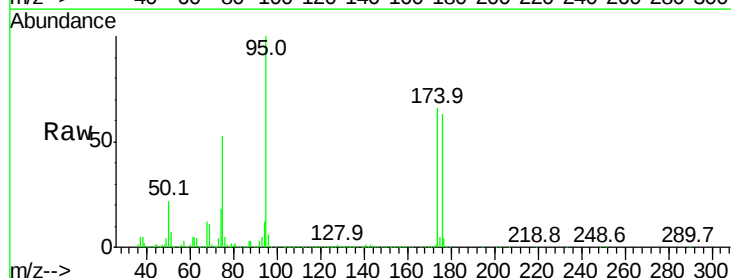
Tgt Ion: 95 Resp: 2685214

Ion Ratio Lower Upper

95 100

174 67.0 50.7 76.1

175 5.1 3.8 5.6



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

14.59

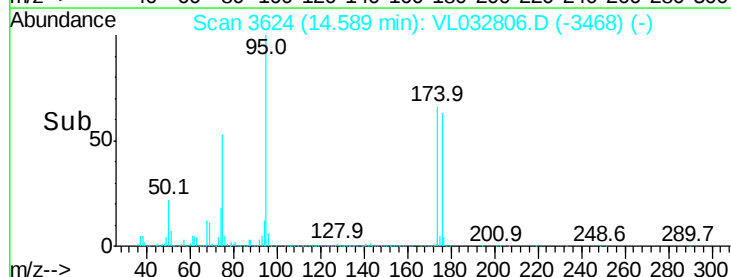
1500000

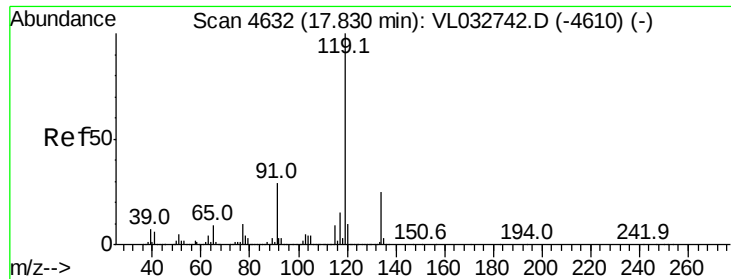
1000000

500000

0

Time-->

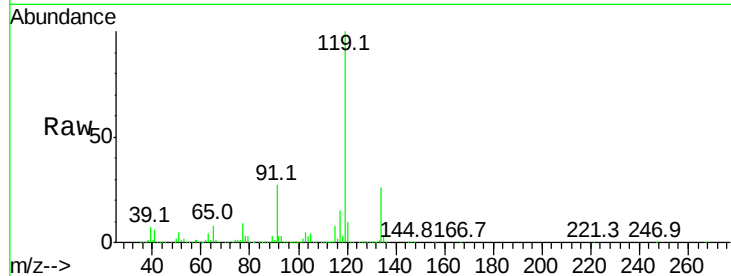




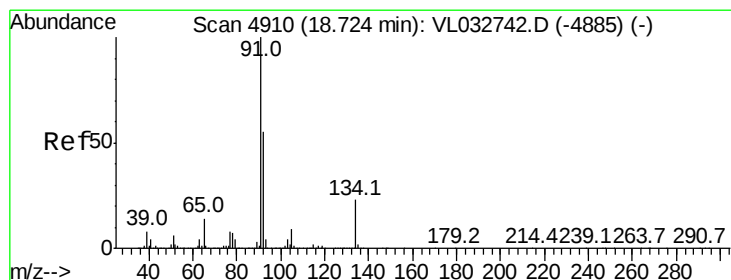
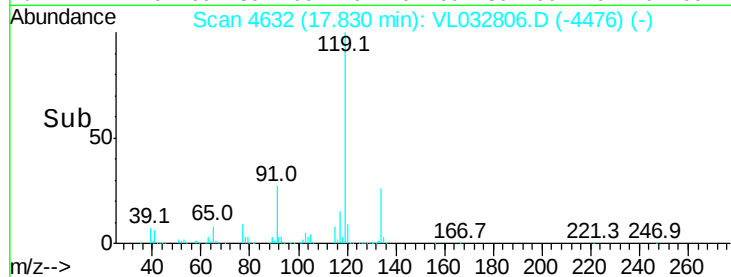
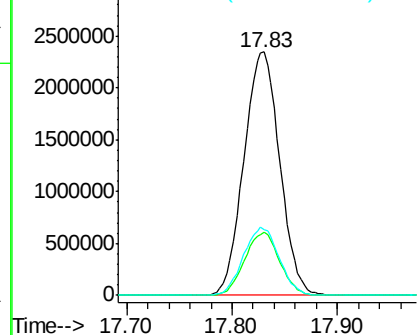
#69
 p-Isopropyltoluene
 Concen: 8.080 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 119 Resp: 5545624
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.2 30.4
 91 27.9 23.5 35.3

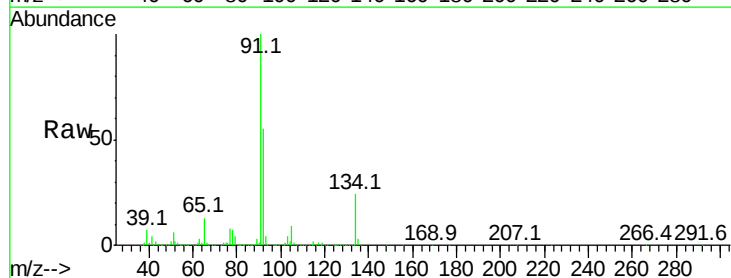


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

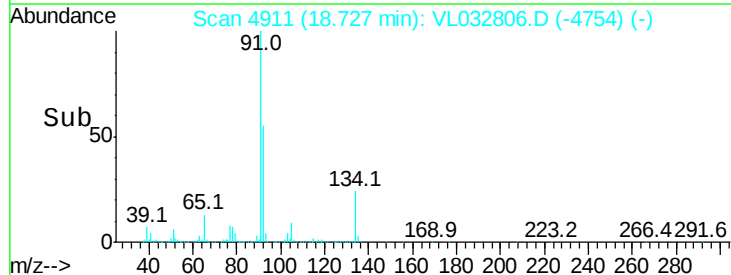
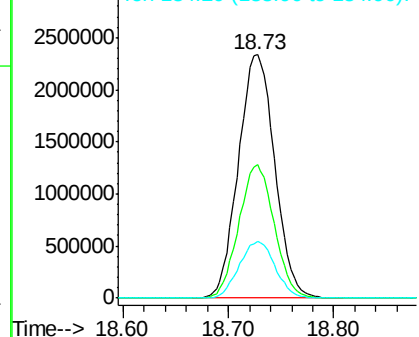


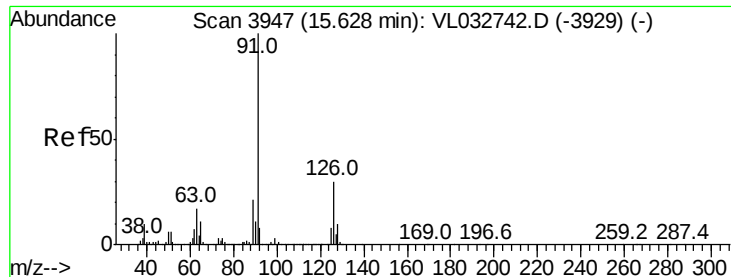
#70
 n-Butylbenzene
 Concen: 8.011 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Tgt Ion: 91 Resp: 5582455
 Ion Ratio Lower Upper
 91 100
 92 53.5 42.9 64.3
 134 23.2 17.8 26.8



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: 7.872 ppbv

RT: 15.63 min Scan# 3948

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

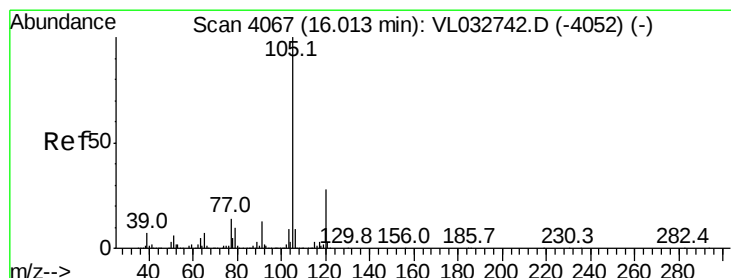
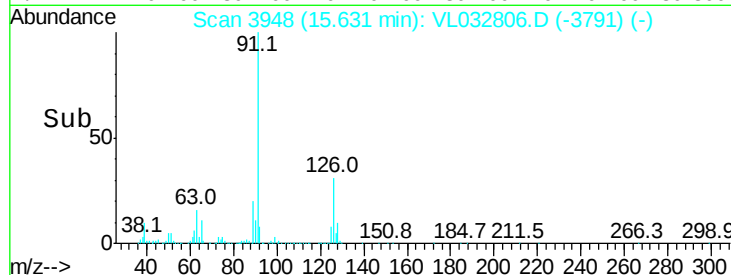
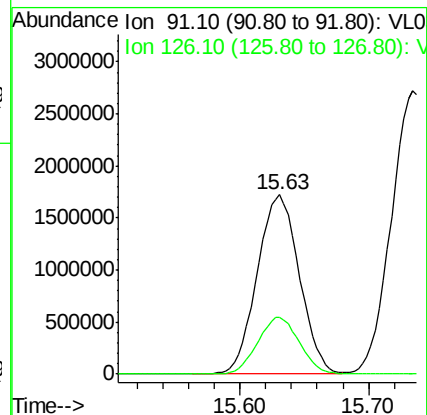
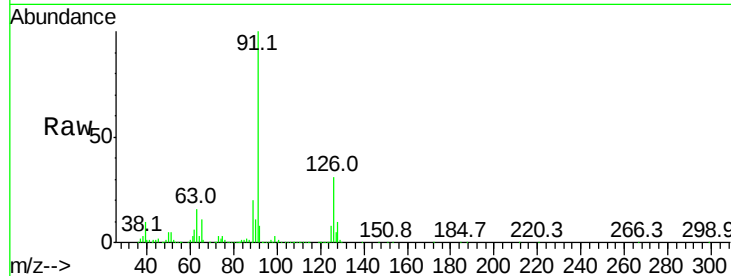
VSTDCCC010EC

Tgt Ion: 91 Resp: 3922115

Ion Ratio Lower Upper

91 100

126 31.4 12.1 48.5



#72

4-Ethyltoluene

Concen: 8.058 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Tgt Ion: 105 Resp: 4365839

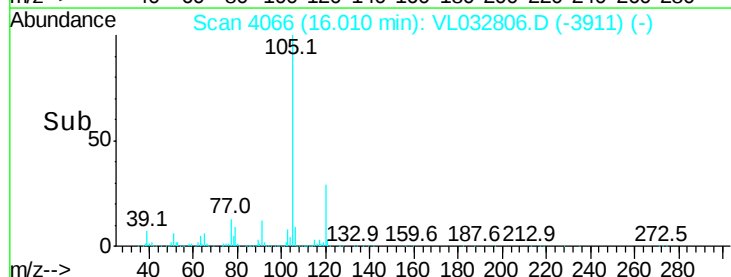
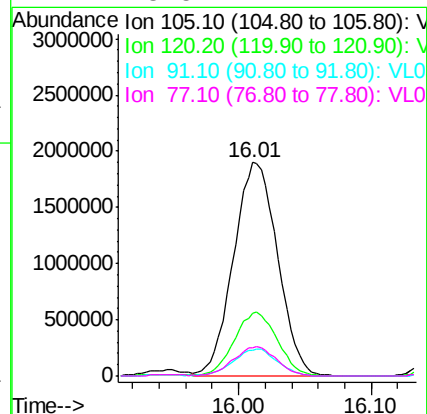
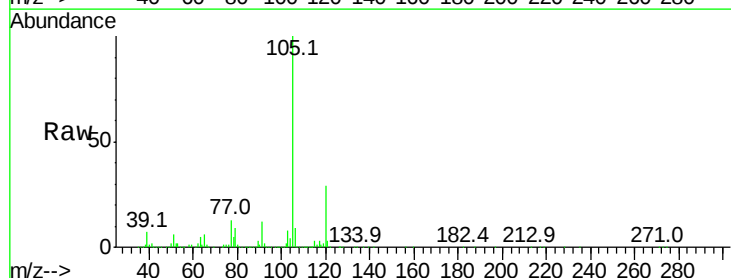
Ion Ratio Lower Upper

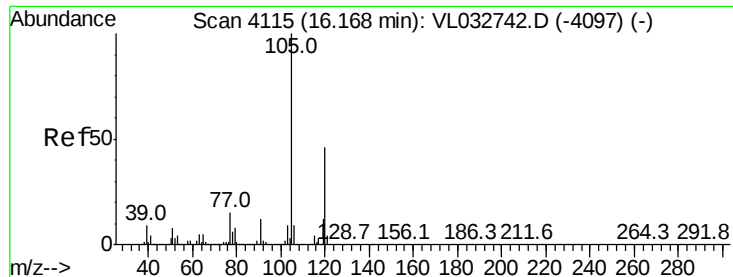
105 100

120 29.4 22.9 34.3

91 13.1 10.6 15.8

77 13.5 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 7.783 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

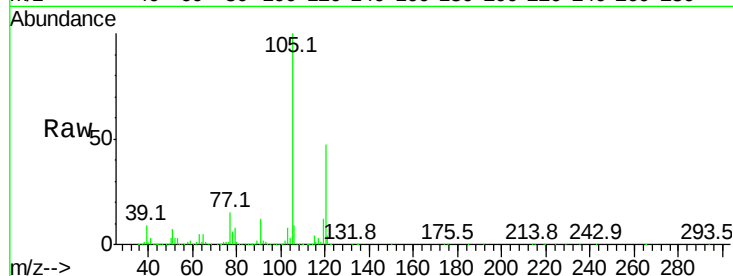
VSTDCCC010EC

Tgt Ion:105 Resp: 4122776

Ion Ratio Lower Upper

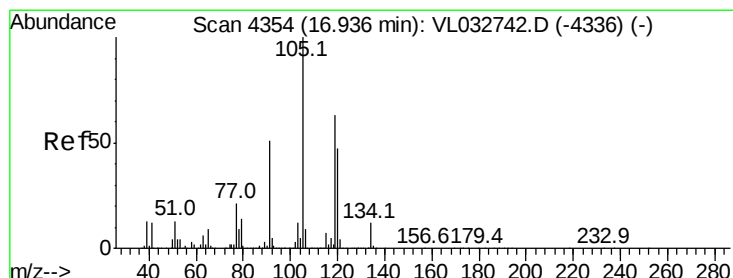
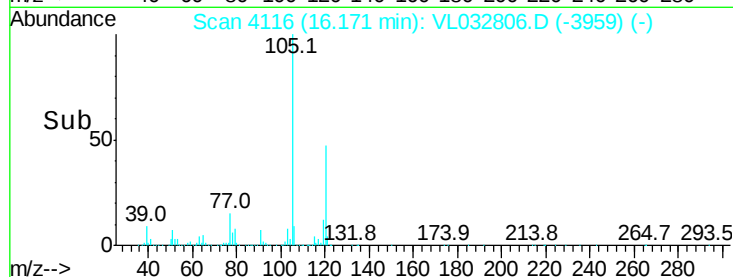
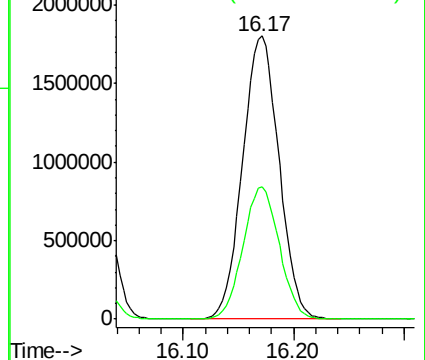
105 100

120 46.8 36.6 55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.450 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Tgt Ion:105 Resp: 4223288

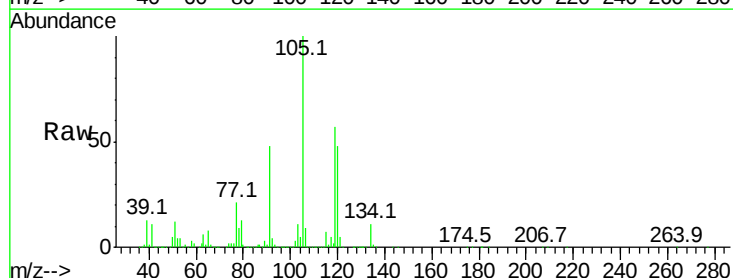
Ion Ratio Lower Upper

105 100

120 48.2 37.6 56.4

91 47.6 42.5 63.7

77 20.7 17.4 26.2

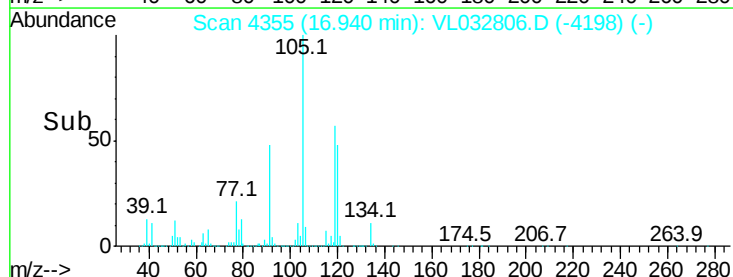
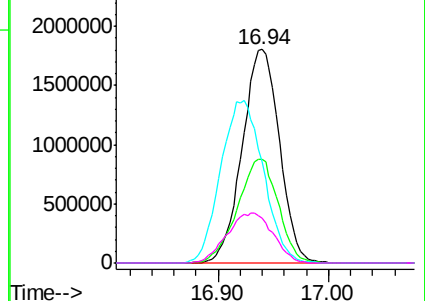


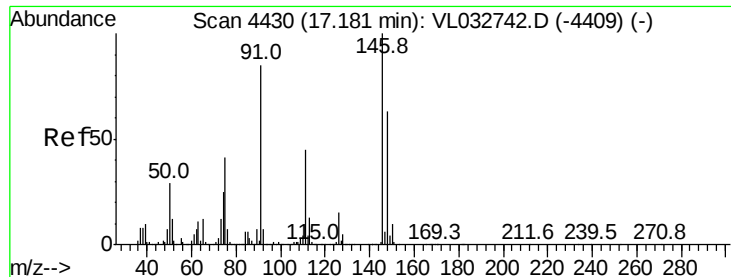
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.487 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. -0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

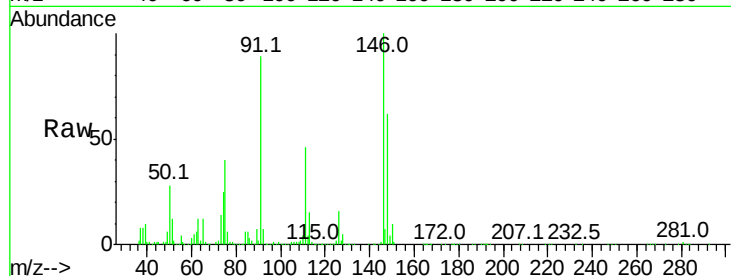
Tgt Ion:146 Resp: 2434491

Ion Ratio Lower Upper

146 100

111 46.1 23.5 70.6

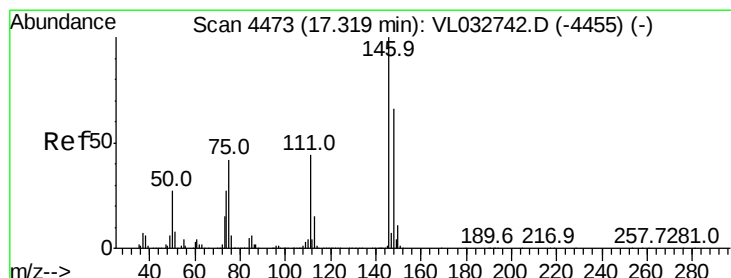
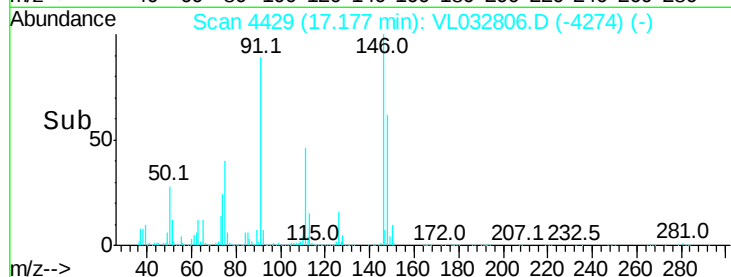
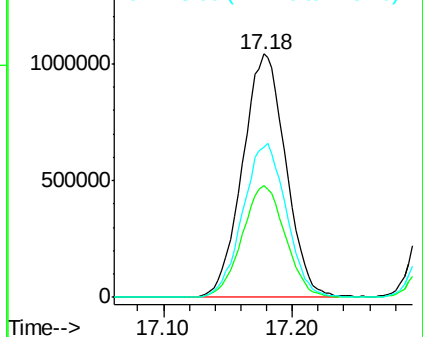
148 63.7 31.8 95.3



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



#76

1,4-Dichlorobenzene

Concen: 7.902 ppbv

RT: 17.32 min Scan# 4474

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

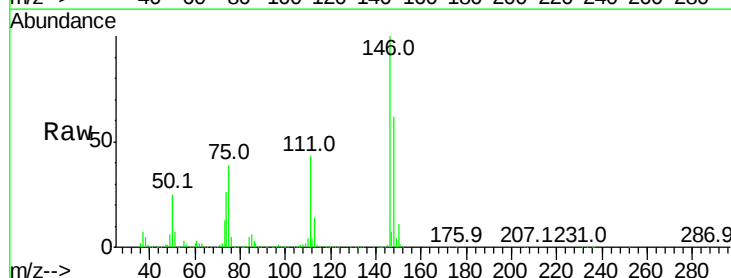
Tgt Ion:146 Resp: 2400035

Ion Ratio Lower Upper

146 100

111 44.7 22.5 67.5

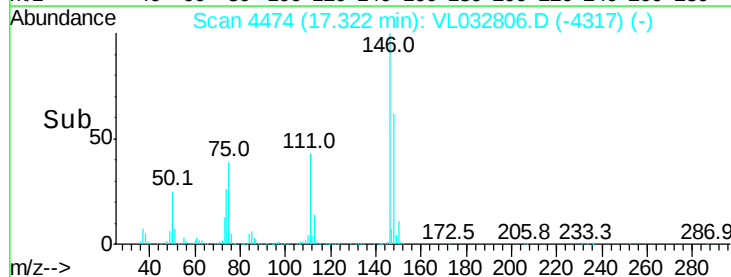
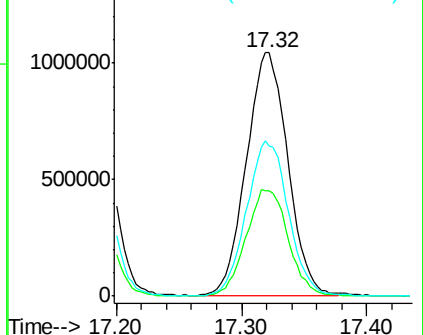
148 64.5 32.5 97.5

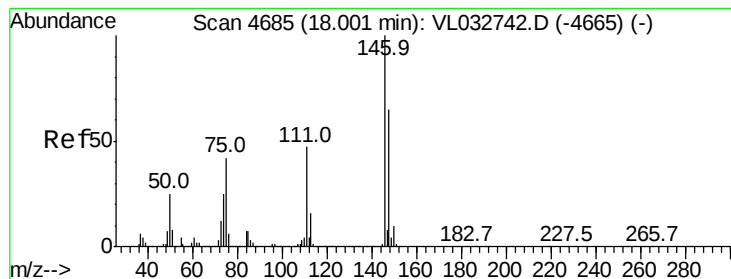


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.915 ppbv

RT: 18.00 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

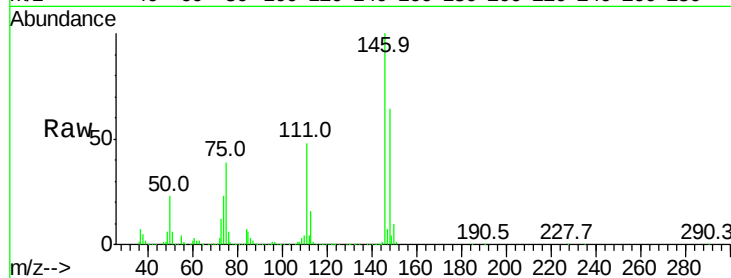
Tgt Ion:146 Resp: 2380928

Ion Ratio Lower Upper

146 100

111 47.3 24.4 73.2

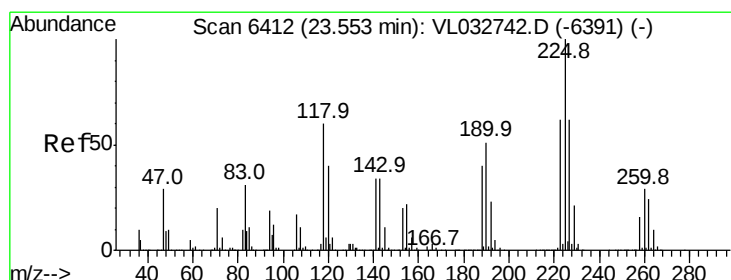
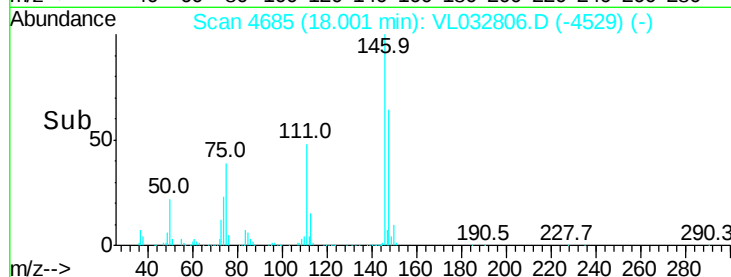
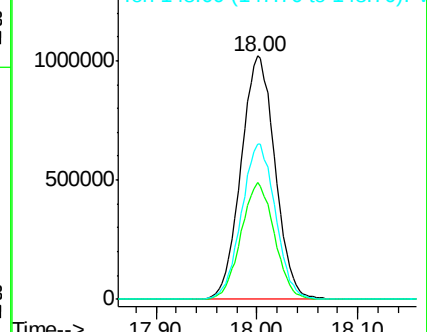
148 64.1 32.2 96.6



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: 11.185 ppbv

RT: 23.56 min Scan# 6414

Delta R.T. 0.01 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

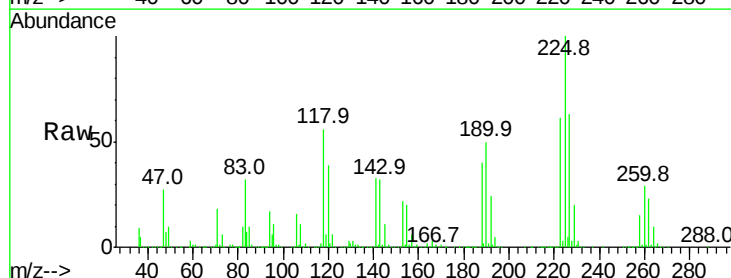
Tgt Ion:225 Resp: 1815916

Ion Ratio Lower Upper

225 100

223 63.2 50.3 75.5

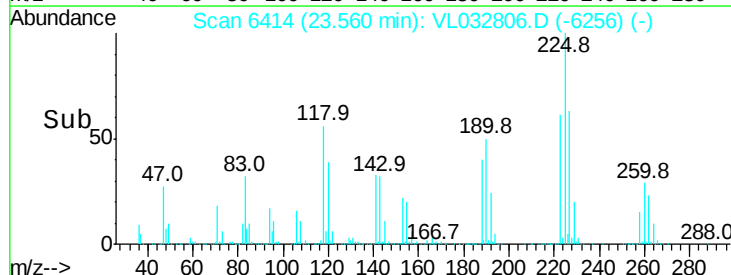
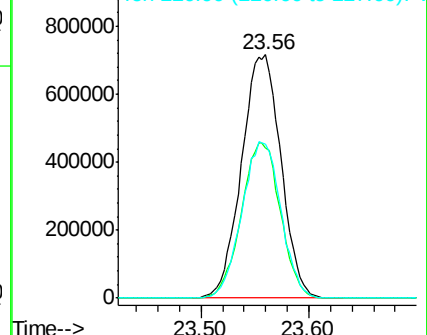
227 63.8 50.2 75.4

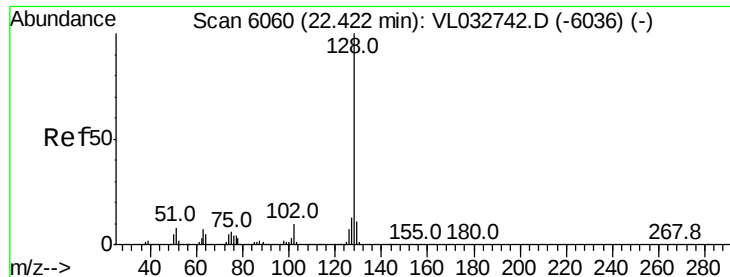


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.548 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. 0.01 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

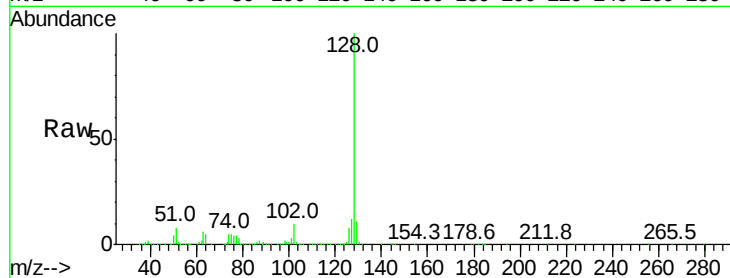
Tgt Ion:128 Resp: 4300250

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

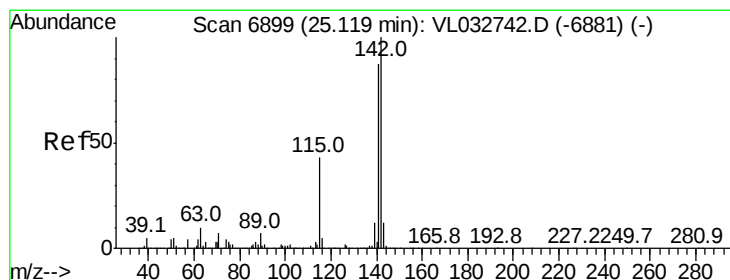
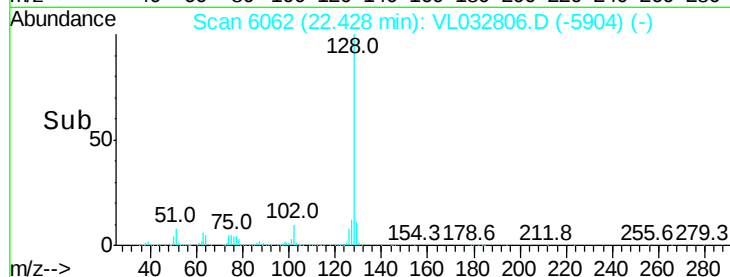
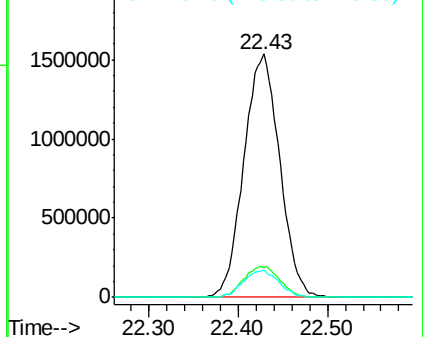
129 11.0 8.9 13.3



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: 13.045 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL032806.D

Acq: 21 Nov 2018 9:10

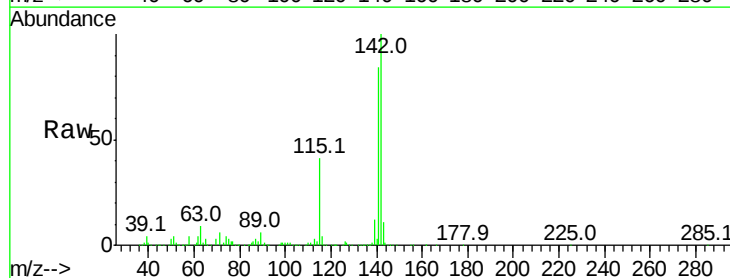
Tgt Ion:142 Resp: 1216654

Ion Ratio Lower Upper

142 100

141 84.0 68.7 103.1

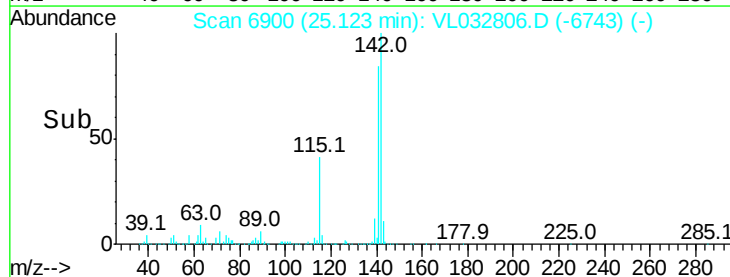
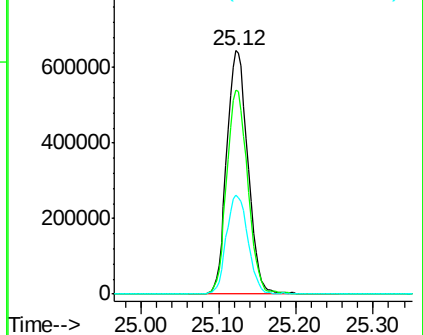
115 41.7 35.5 53.3

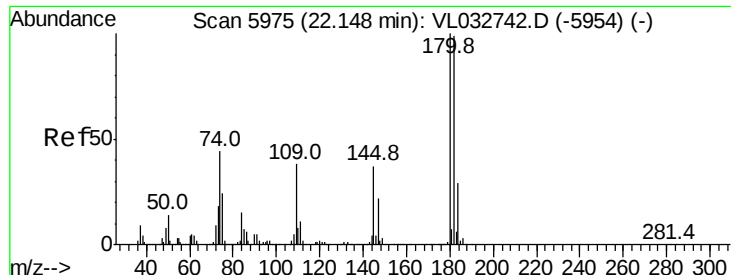


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

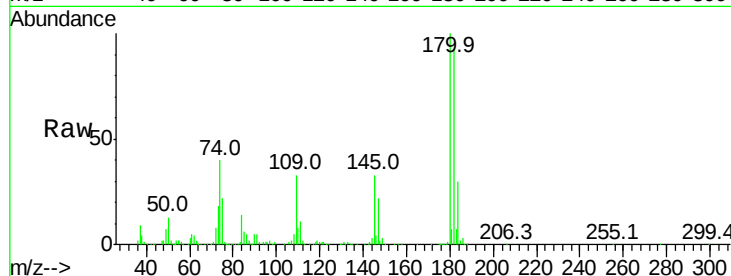




#81
 1,2,4-Trichlorobenzene
 Concen: 11.110 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL032806.D
 Acq: 21 Nov 2018 9:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:180 Resp: 2077645
 Ion Ratio Lower Upper
 180 100
 182 96.2 77.3 115.9
 184 30.4 24.2 36.4



Abundance Ion 180.00 (179.70 to 180.70): V
 1000000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

