

Data File : VL033285.D
Acq On : 12 Mar 2019 15:41
Operator : SY/AP
Sample : 0.4 PPB MDL
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Quant Time: Mar 13 07:53:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	818657	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1893341	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1861477	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1501070	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	77500	0.469	ppbv	96
3) Chlorodifluoromethane	3.01	51	46257	0.426	ppbv	99
4) Chloromethane	3.17	50	12973	0.223	ppbv #	85
5) Vinyl Chloride	3.29	62	21875	0.386	ppbv	97
6) Bromomethane	3.52	94	13845	0.400	ppbv	84
7) Chloroethane	3.60	64	5184	0.253	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	60390	0.432	ppbv	98
9) Propene	3.04	41	18727	0.378	ppbv	97
10) Heptane	8.24	43	41071	0.368	ppbv	96
11) Trichlorofluoromethane	4.00	101	68526	0.419	ppbv #	83
12) 1,1,2-Trichlorotrifluoroet	4.55	101	43099	0.460	ppbv	97
13) Ethanol	3.66	45	8175	0.541	ppbv	89
14) Bromoethene	3.79	108	17787	0.407	ppbv	99
15) Acetone	3.91	43	52332	0.417	ppbv	99
16) 1,3-Butadiene	3.36	39	17163	0.379	ppbv	99
17) tert-Butyl alcohol	4.34	59	543	0.032	ppbv #	74
18) 1,1-Dichloroethene	4.35	96	18508	0.446	ppbv #	85
19) Isopropyl Alcohol	4.04	45	16525	0.218	ppbv #	84
20) Methylene Chloride	4.41	84	22486	0.539	ppbv	95
21) Allyl Chloride	4.48	41	26376	0.422	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	16236	0.367	ppbv	98
23) Vinyl Acetate	5.15	43	66921	0.425	ppbv #	96
24) 1,1-Dichloroethane	5.09	63	46392	0.407	ppbv	99
25) Ethyl Acetate	5.78	43	77775	0.402	ppbv	99
26) Hexane	5.78	57	38129	0.420	ppbv	91
27) Carbon Disulfide	4.62	76	34940	0.363	ppbv #	86
28) Methyl tert-Butyl Ether	5.12	73	46957	0.364	ppbv	98
29) Chloroform	5.84	83	59613	0.431	ppbv	98
30) Cyclohexane	7.25	84	24958	0.354	ppbv	89
31) cis-1,2-Dichloroethene	5.64	61	33373	0.383	ppbv	96
32) 1,1,1-Trichloroethane	6.61	97	53800	0.400	ppbv	92
34) 2-Butanone	5.34	43	49206	0.393	ppbv	99
35) Carbon Tetrachloride	7.13	117	55520	0.401	ppbv	93
36) Benzene	7.00	78	67027	0.384	ppbv	96
37) 1,2-Dichloroethane	6.42	62	25457	0.243	ppbv #	86
38) Trichloroethene	7.96	130	27296	0.401	ppbv	89
39) 1,2-Dichloropropane	7.73	63	28339	0.431	ppbv	86
41) Tetrahydrofuran	6.17	42	11088	0.160	ppbv #	23
42) Bromodichloromethane	7.91	83	56173	0.390	ppbv #	93
43) Methyl Methacrylate	8.14	69	14579	0.214	ppbv #	26
44) 2,2,4-Trimethylpentane	7.99	57	115388	0.389	ppbv	95

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0.4 PPB MDL

Quant Time: Mar 13 07:53:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.41	75	9970	0.119	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	32248	0.329	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	7969	0.114	ppbv #	46
48) Dibromochloromethane	10.45	129	42307	0.368	ppbv	99
49) Bromoform	13.19	173	14961	0.160	ppbv #	27
50) 4-Methyl-2-Pentanone	8.88	43	66247	0.371	ppbv	96
51) 2-Hexanone	10.29	43	44592	0.327	ppbv #	95
52) Tetrachloroethene	11.37	164	16190	0.253	ppbv	90
53) Toluene	9.94	91	69544	0.346	ppbv	98
54) 1,2-Dibromoethane	10.76	107	38078	0.353	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.28	131	17857	0.226	ppbv #	1
57) Chlorobenzene	12.30	112	62455	0.445	ppbv #	92
58) Ethyl Benzene	12.86	91	49047	0.192	ppbv	96
59) m/p-Xylene	13.12	91	61760	0.289	ppbv #	32
60) o-Xylene	13.85	91	78269	0.381	ppbv	96
61) Styrene	13.68	104	45801	0.313	ppbv	94
62) Isopropylbenzene	14.83	105	112163	0.391	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	60143	0.436	ppbv	96
64) n-propylbenzene	15.72	120	18643	0.264	ppbv #	1
65) tert-Butylbenzene	16.91	119	50279	0.208	ppbv #	26
66) Benzyl Chloride	17.15	91	12151	0.130	ppbv #	75
67) sec-Butylbenzene	17.46	105	76842	0.223	ppbv #	75
69) p-Isopropyltoluene	17.82	119	97678	0.351	ppbv	97
70) n-Butylbenzene	18.72	91	106204	0.356	ppbv	99
71) 2-Chlorotoluene	15.62	91	84996	0.393	ppbv	99
72) 4-Ethyltoluene	16.00	105	50334	0.227	ppbv #	68
73) 1,3,5-Trimethylbenzene	16.16	105	73244	0.350	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	83074	0.390	ppbv #	88
75) 1,3-Dichlorobenzene	17.16	146	29622	0.232	ppbv #	24
76) 1,4-Dichlorobenzene	17.31	146	29386	0.233	ppbv #	32
77) 1,2-Dichlorobenzene	17.99	146	53091	0.417	ppbv	98
78) Hexachloro-1,3-Butadiene	23.54	225	25027	0.236	ppbv #	36
79) Naphthalene	22.42	128	30470	0.132	ppbv #	95
80) Naphthalene,2-methyl-	25.12	142	2579	0.041	ppbv #	77
81) 1,2,4-Trichlorobenzene	22.14	180	17808	0.147	ppbv #	16

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

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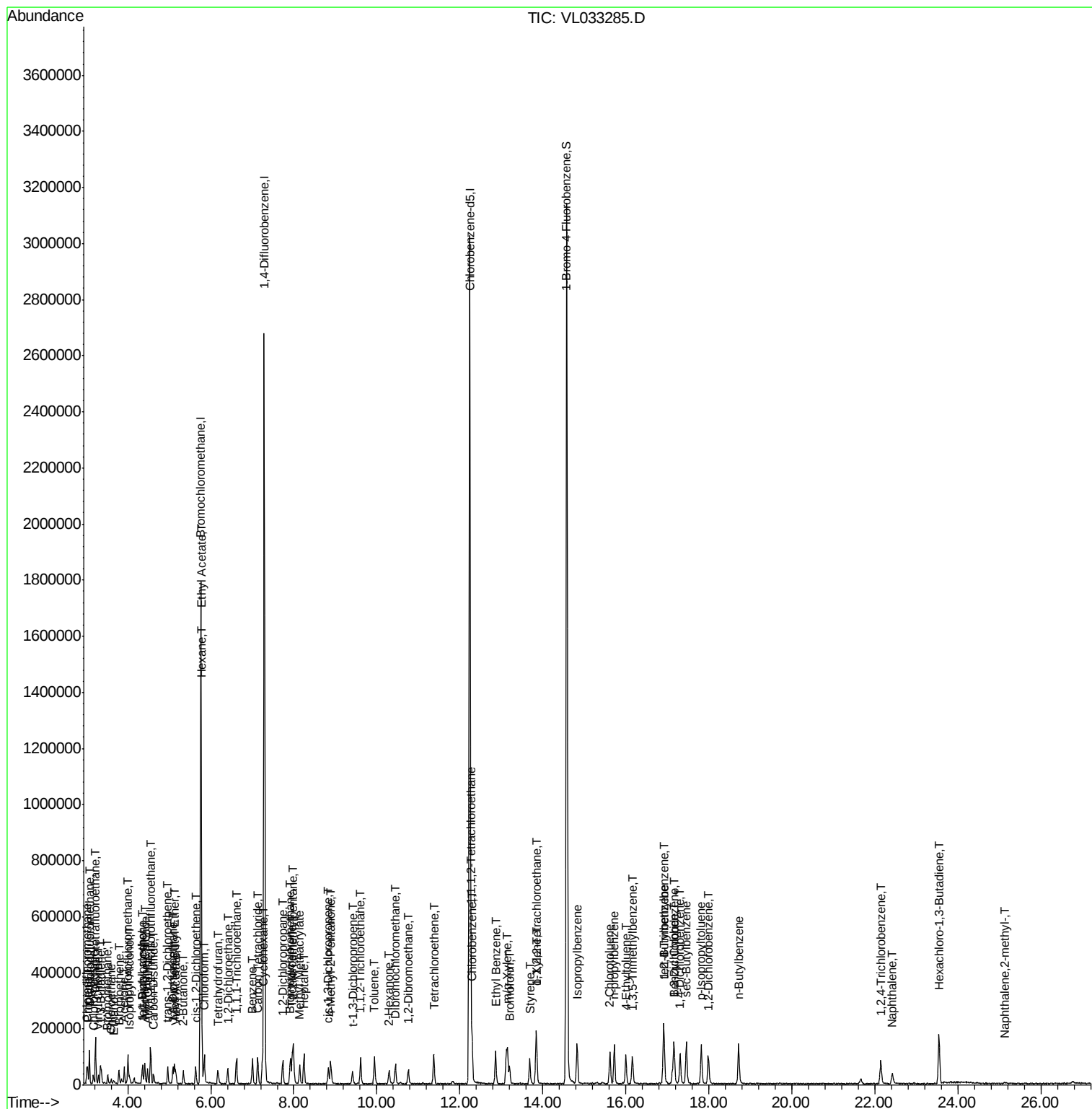
Quant Time: Mar 13 07:53:16 2019

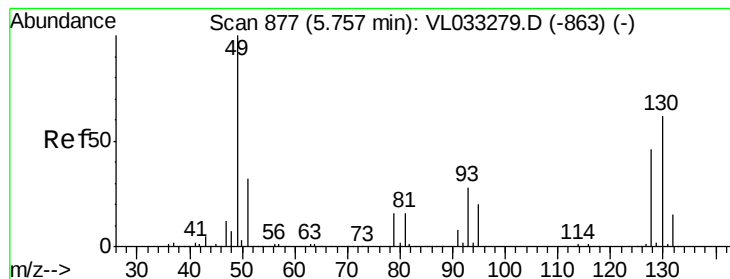
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL031219AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

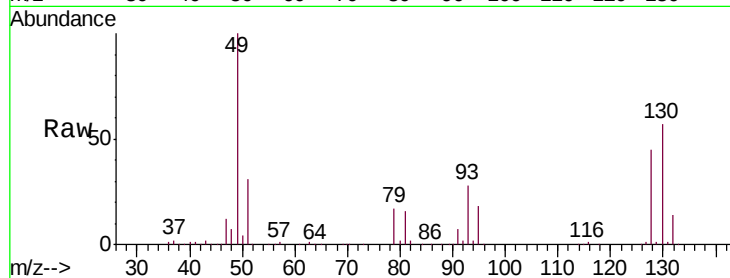
Tgt Ion: 49 Resp: 818657

Ion Ratio Lower Upper

49 100

128 46.1 23.3 69.9

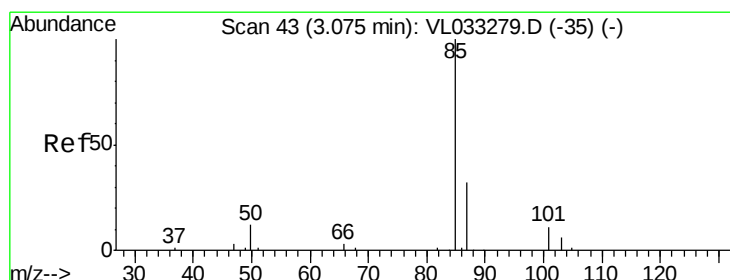
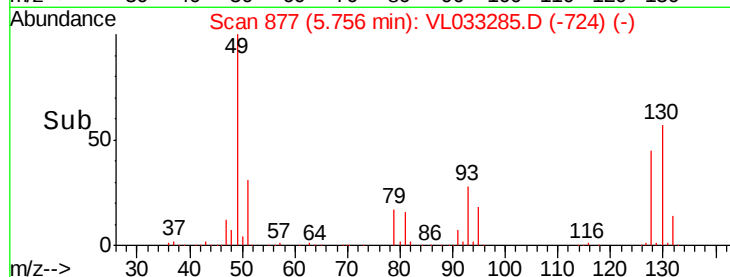
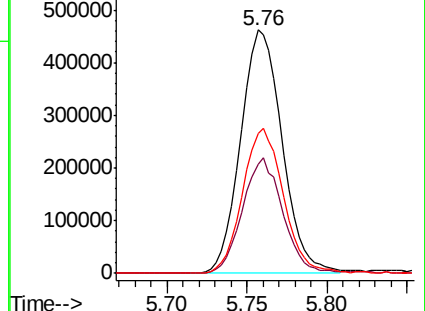
130 58.8 30.0 90.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.469 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033285.D

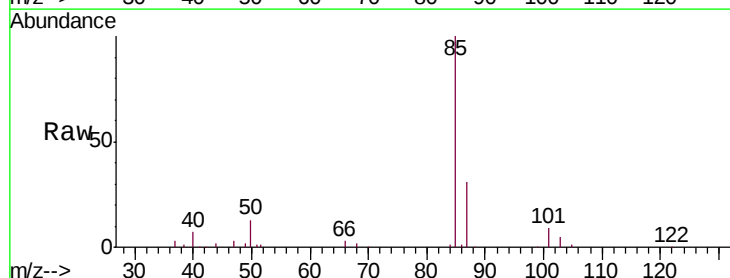
Acq: 12 Mar 2019 15:41

Tgt Ion: 85 Resp: 77500

Ion Ratio Lower Upper

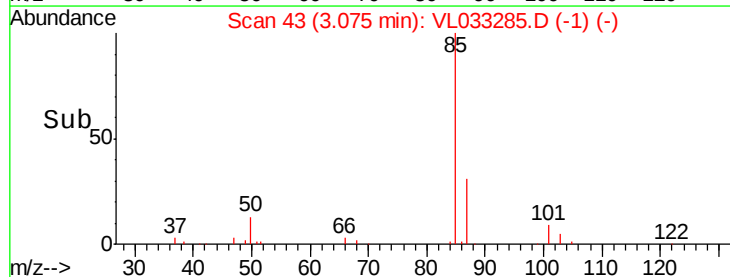
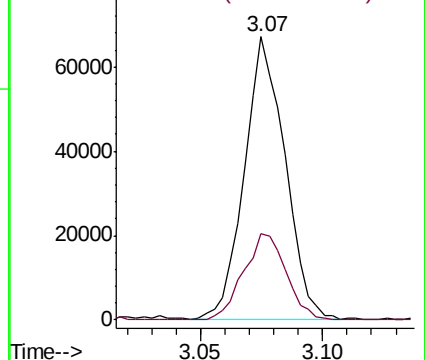
85 100

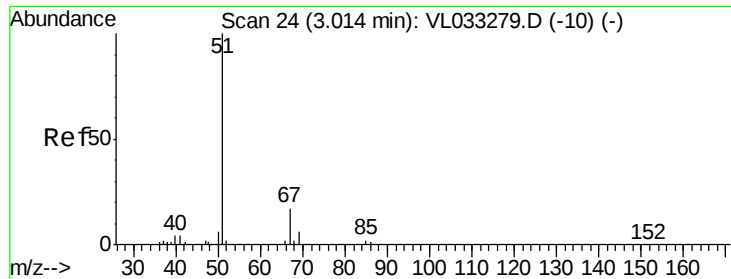
87 30.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.426 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

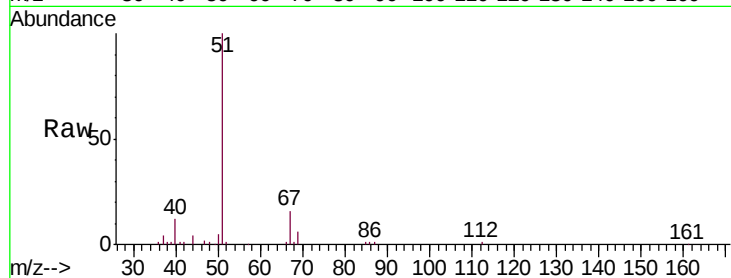
0.4 PPB MDL

Tgt Ion: 51 Resp: 46257

Ion Ratio Lower Upper

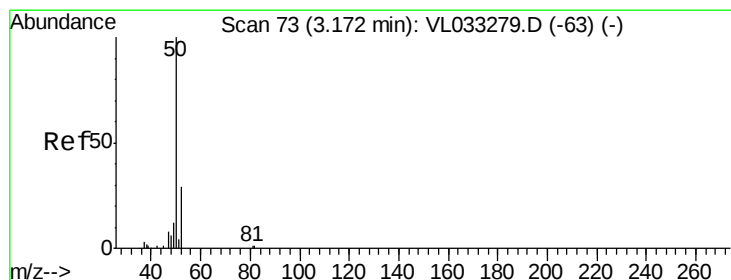
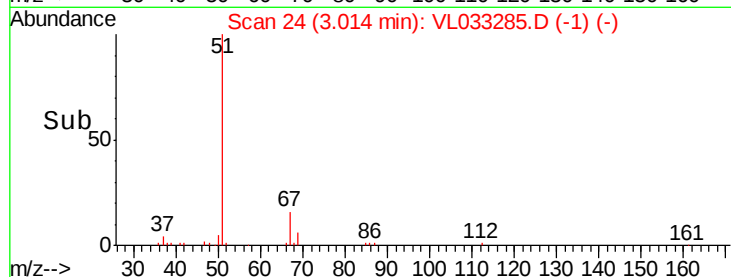
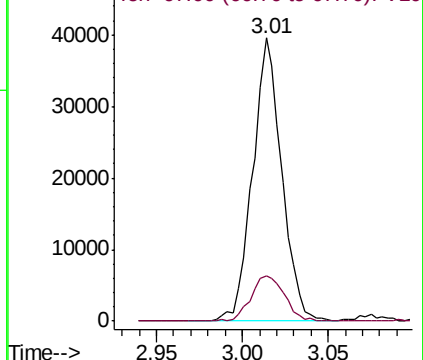
51 100

67 18.3 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.223 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033285.D

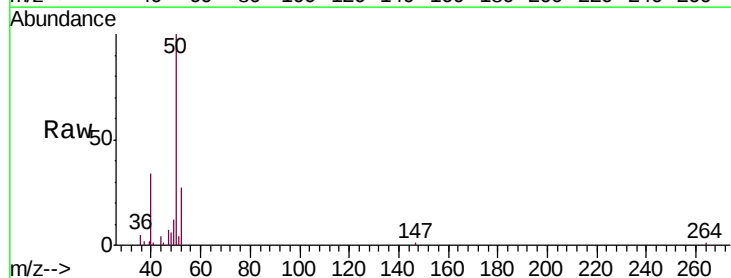
Acq: 12 Mar 2019 15:41

Tgt Ion: 50 Resp: 12973

Ion Ratio Lower Upper

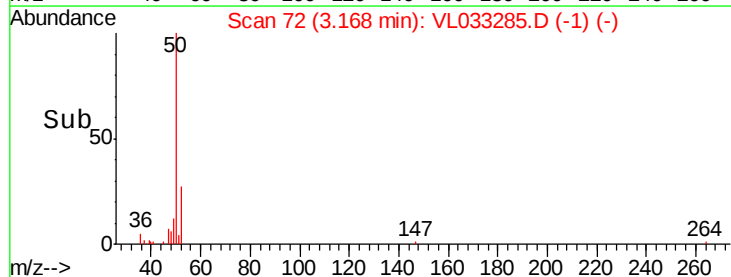
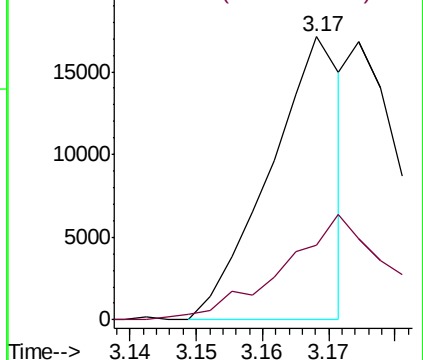
50 100

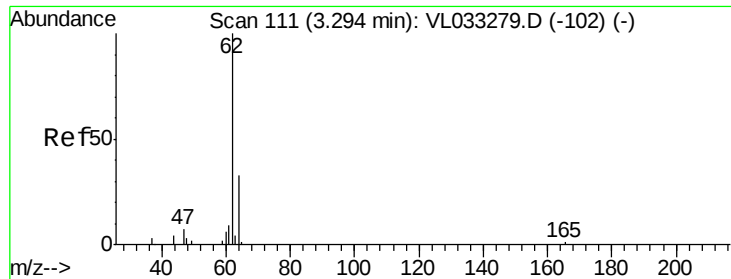
52 24.6 26.6 39.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.386 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

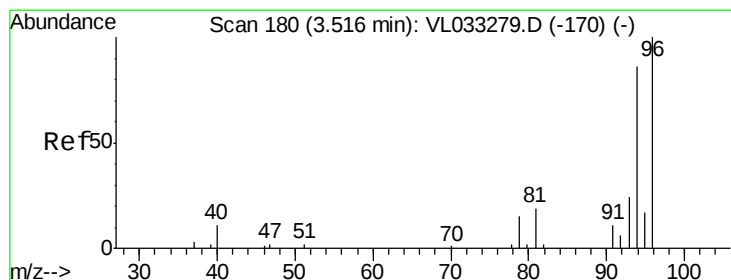
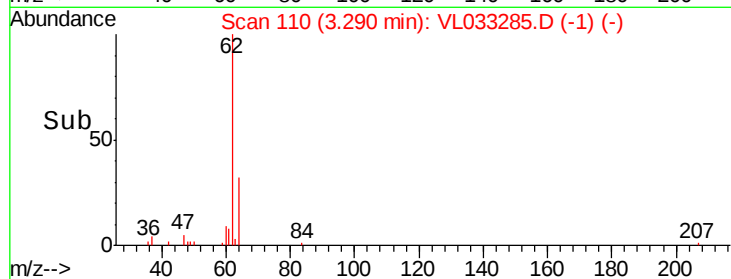
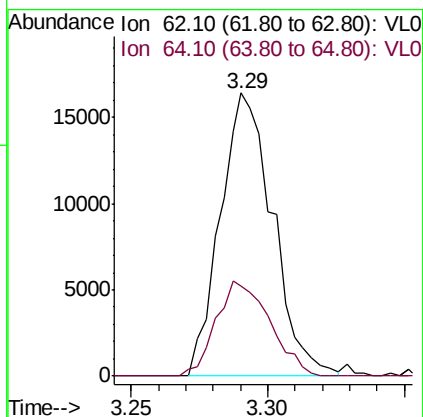
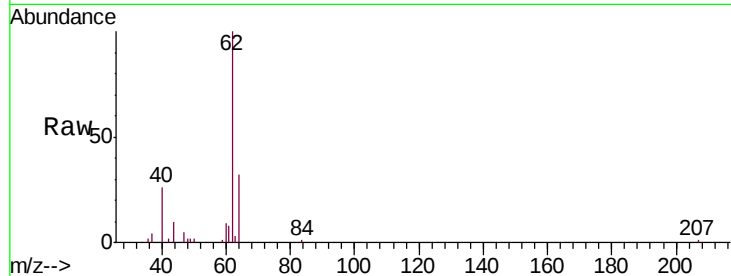
0.4 PPB MDL

Tgt Ion: 62 Resp: 21875

Ion Ratio Lower Upper

62 100

64 32.0 24.5 36.7



#6

Bromomethane

Concen: 0.400 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL033285.D

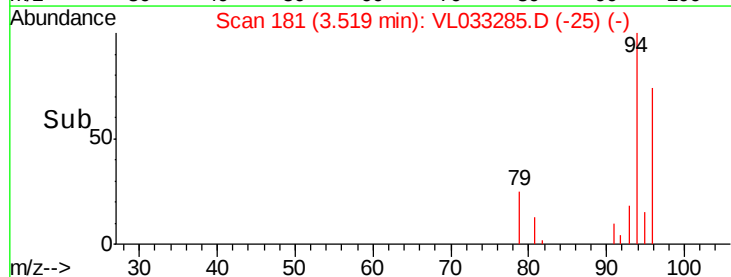
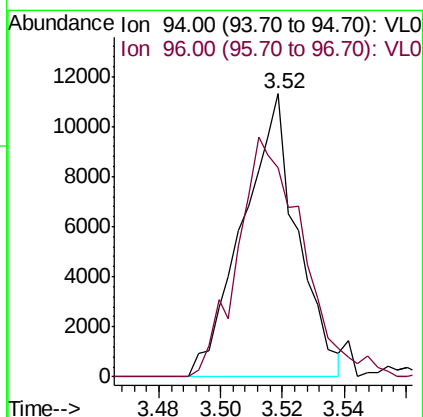
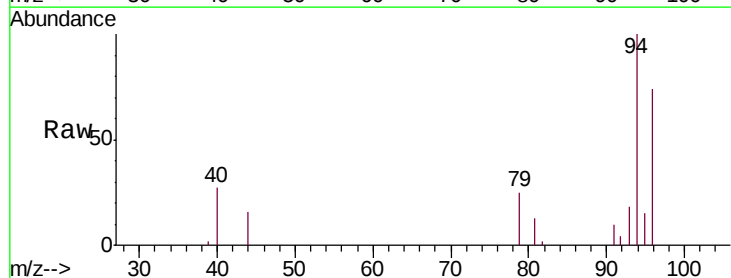
Acq: 12 Mar 2019 15:41

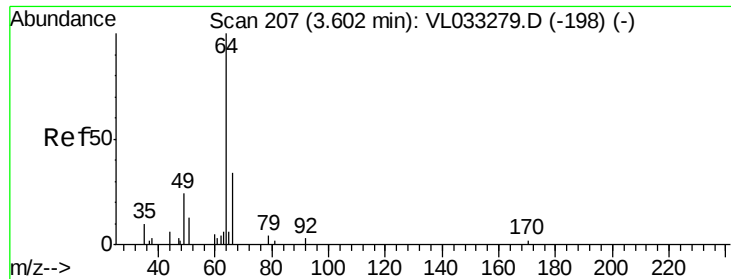
Tgt Ion: 94 Resp: 13845

Ion Ratio Lower Upper

94 100

96 74.0 71.3 106.9





#7

Chloroethane

Concen: 0.253 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

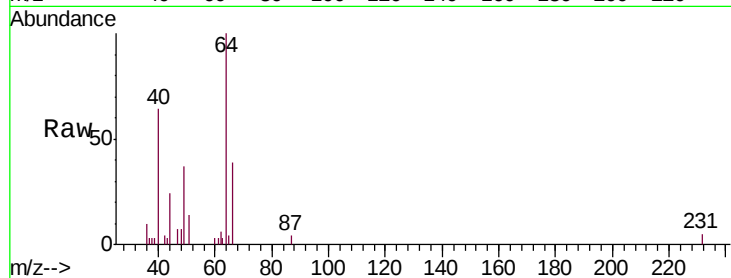
0.4 PPB MDL

Tgt Ion: 64 Resp: 5184

Ion Ratio Lower Upper

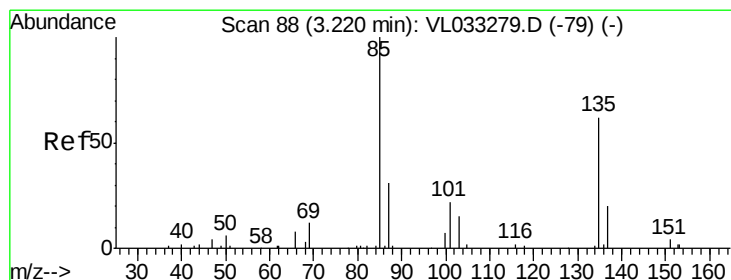
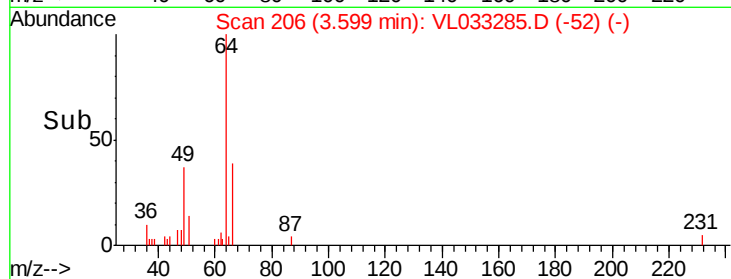
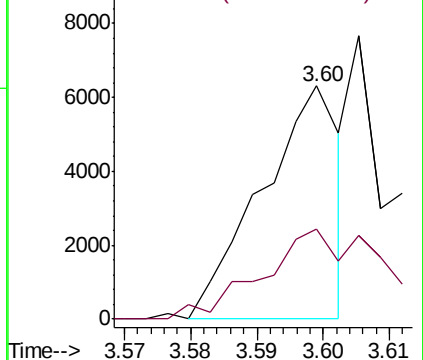
64 100

66 37.2 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.432 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL033285.D

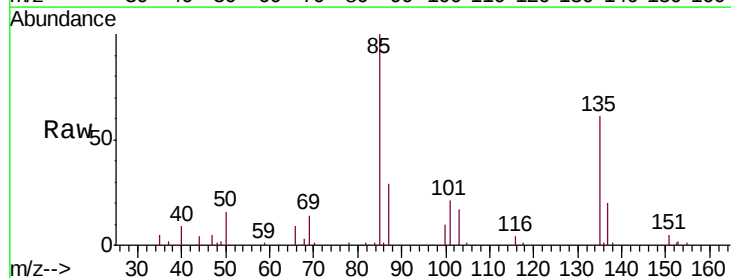
Acq: 12 Mar 2019 15:41

Tgt Ion: 85 Resp: 60390

Ion Ratio Lower Upper

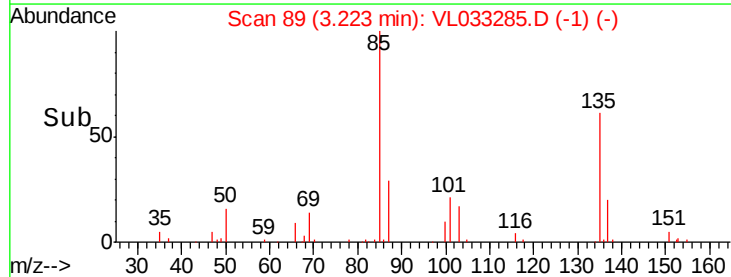
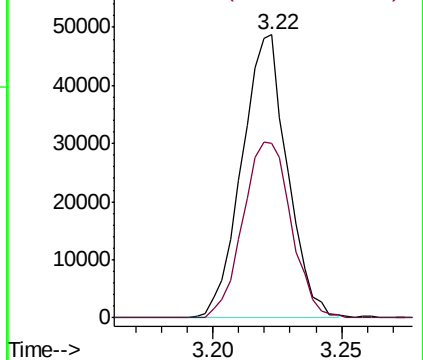
85 100

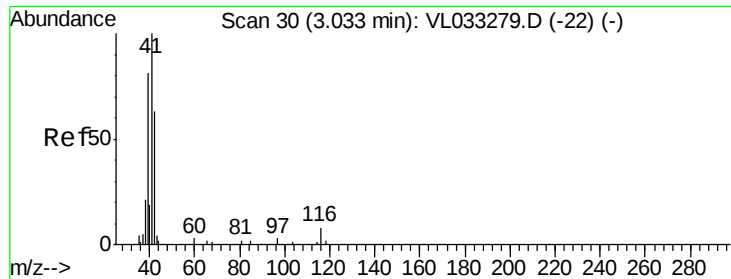
135 65.5 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.378 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

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ClientSampleId :

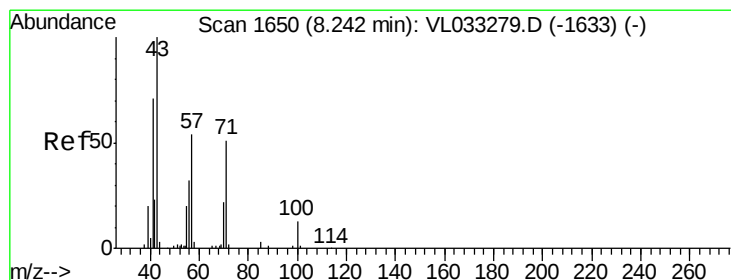
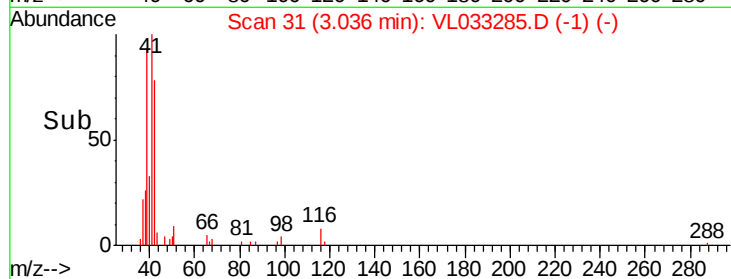
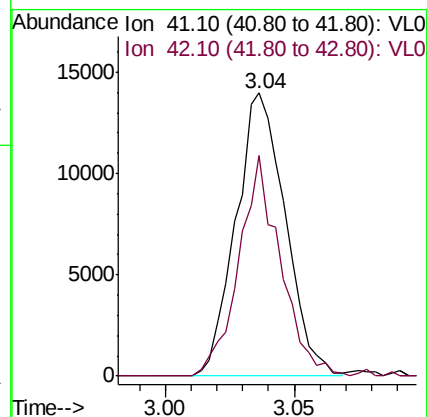
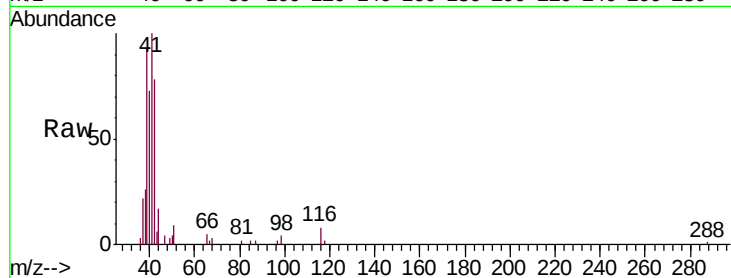
0.4 PPB MDL

Tgt Ion: 41 Resp: 18727

Ion Ratio Lower Upper

41 100

42 66.3 54.6 82.0



#10

Heptane

Concen: 0.368 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033285.D

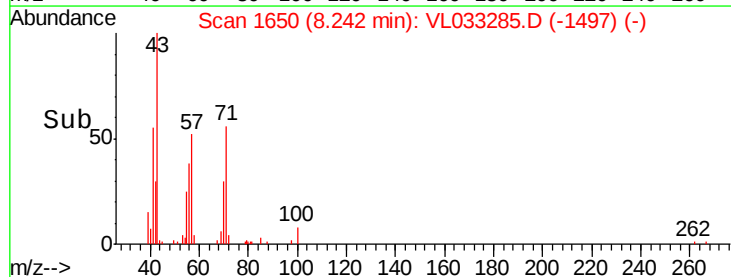
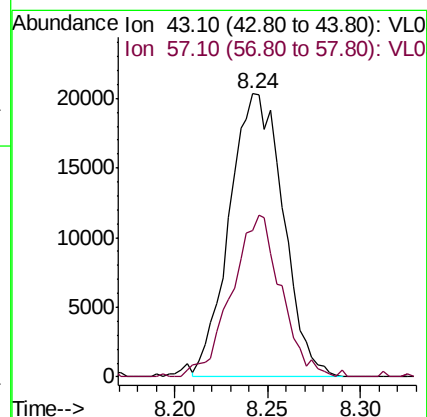
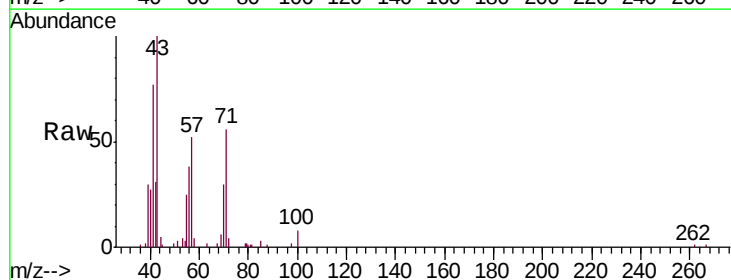
Acq: 12 Mar 2019 15:41

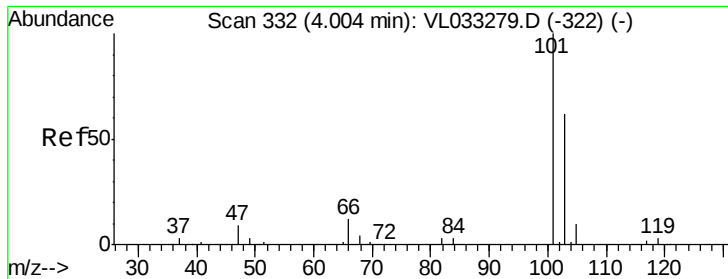
Tgt Ion: 43 Resp: 41071

Ion Ratio Lower Upper

43 100

57 52.8 39.8 59.8

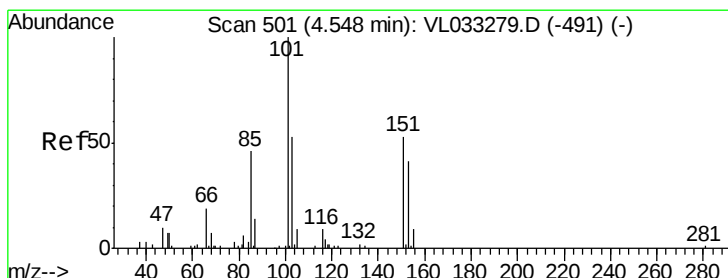
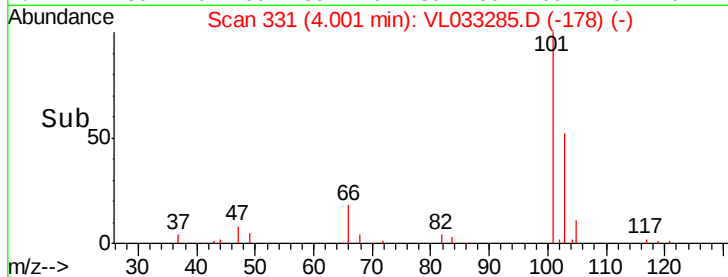
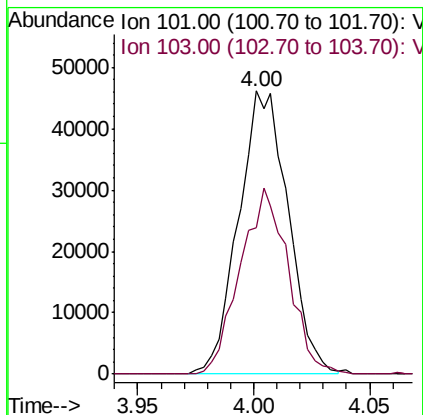
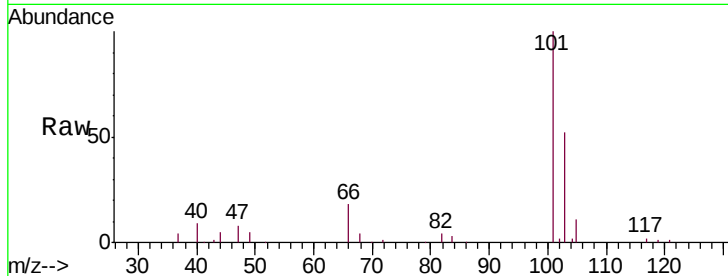




#11
 Trichlorofluoromethane
 Concen: 0.419 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

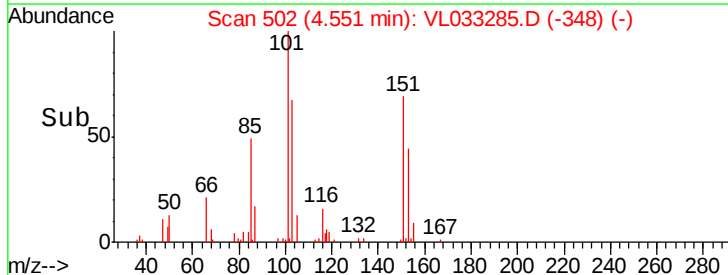
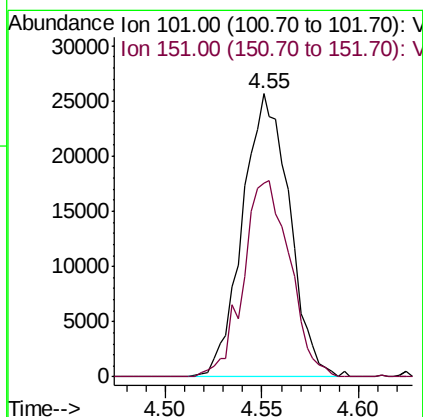
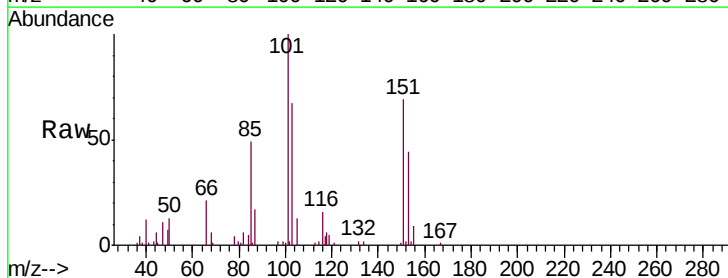
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

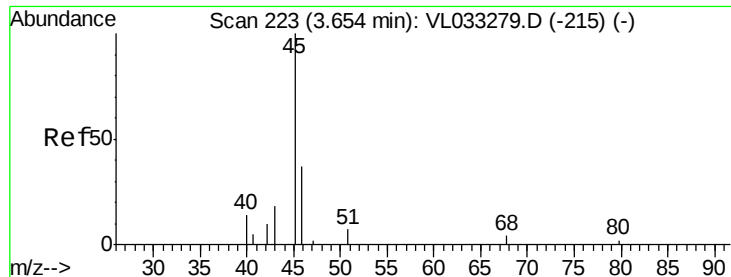
Tgt Ion:101 Resp: 68526
 Ion Ratio Lower Upper
 101 100
 103 51.6 51.8 77.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.460 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion:101 Resp: 43099
 Ion Ratio Lower Upper
 101 100
 151 68.9 56.9 85.3





#13

Ethanol

Concen: 0.541 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

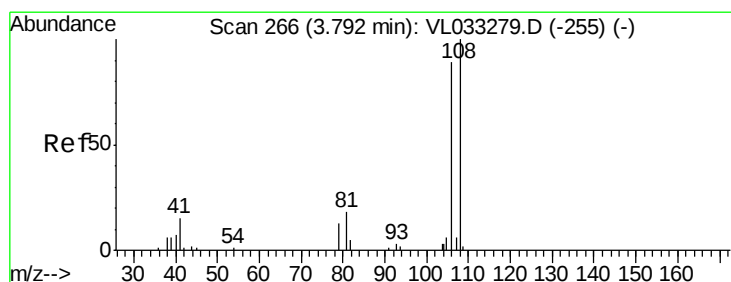
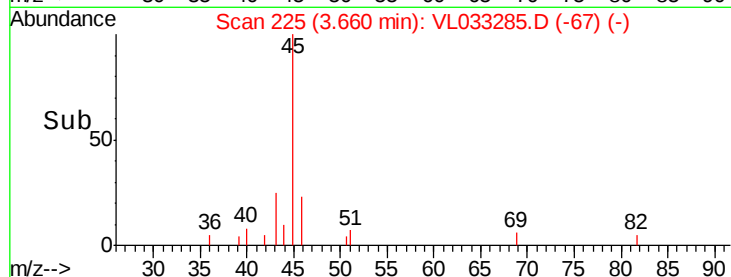
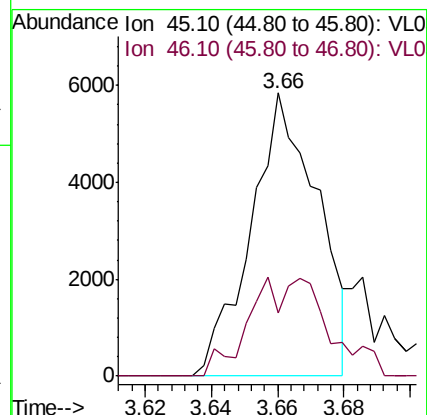
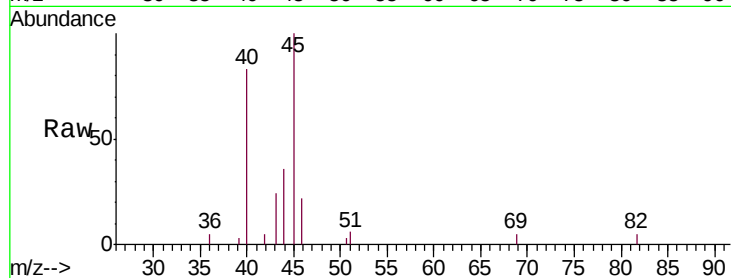
0.4 PPB MDL

Tgt Ion: 45 Resp: 8175

Ion Ratio Lower Upper

45 100

46 41.1 13.9 55.7



#14

Bromoethene

Concen: 0.407 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

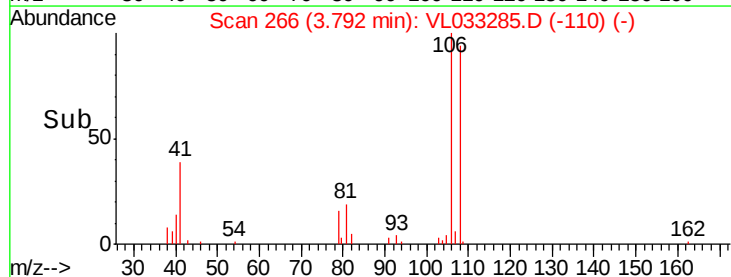
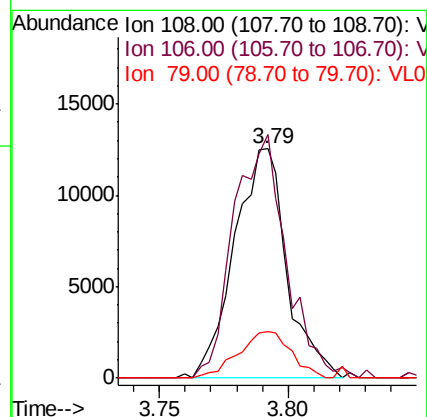
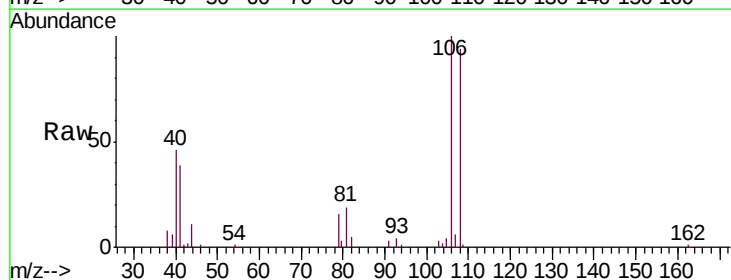
Tgt Ion: 108 Resp: 17787

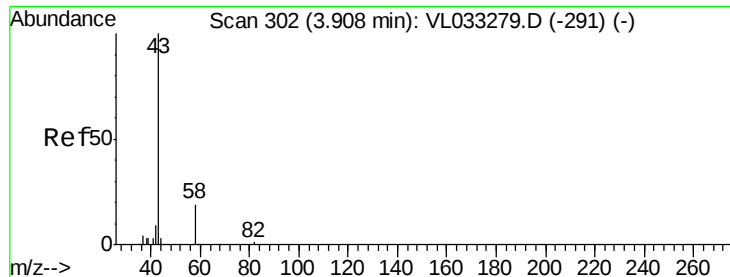
Ion Ratio Lower Upper

108 100

106 107.3 85.9 128.9

79 21.1 14.9 22.3





#15

Acetone

Concen: 0.417 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

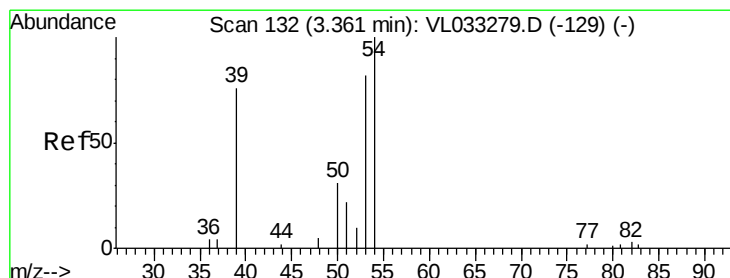
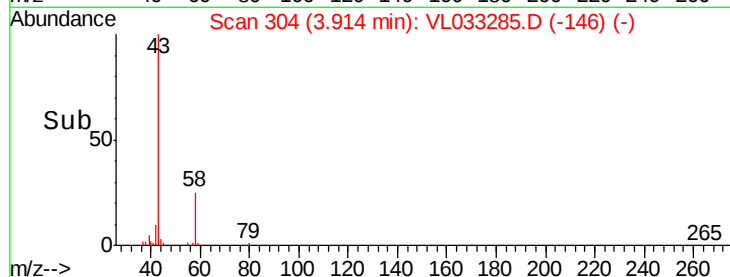
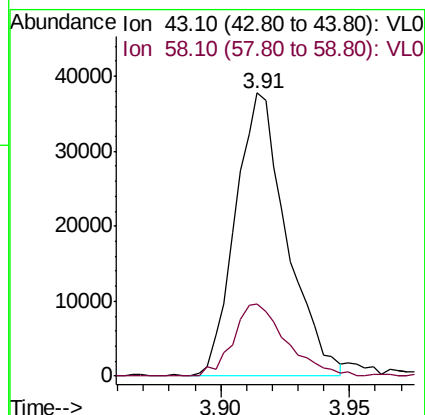
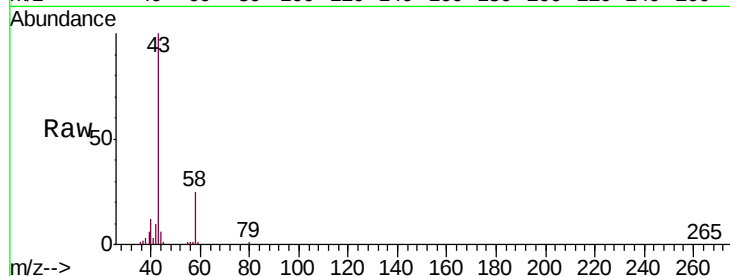
0.4 PPB MDL

Tgt Ion: 43 Resp: 52332

Ion Ratio Lower Upper

43 100

58 26.9 21.1 31.7



#16

1,3-Butadiene

Concen: 0.379 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033285.D

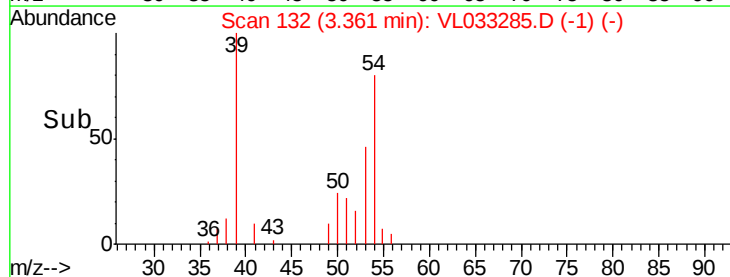
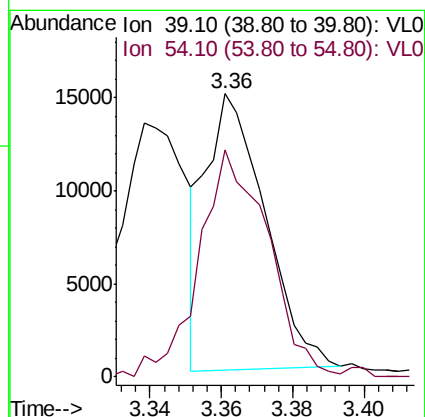
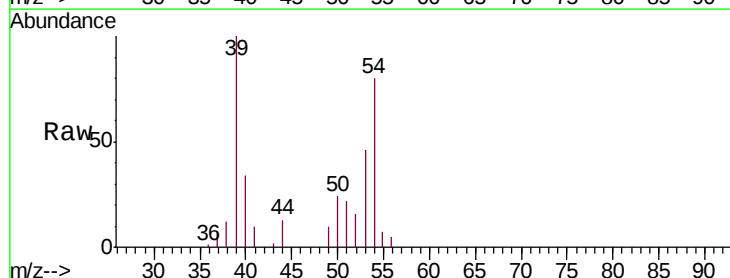
Acq: 12 Mar 2019 15:41

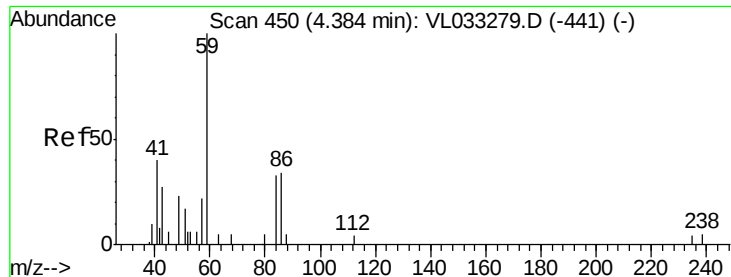
Tgt Ion: 39 Resp: 17163

Ion Ratio Lower Upper

39 100

54 97.0 76.6 114.8





#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 4.34 min Scan# 437

Delta R.T. -0.02 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

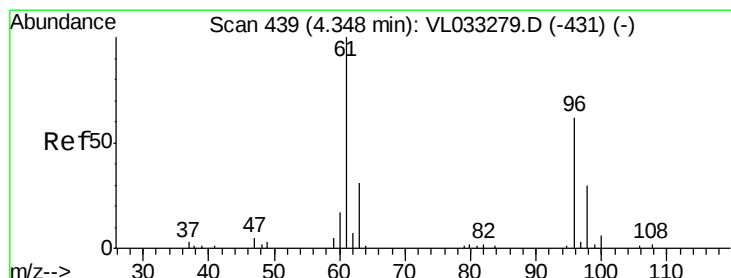
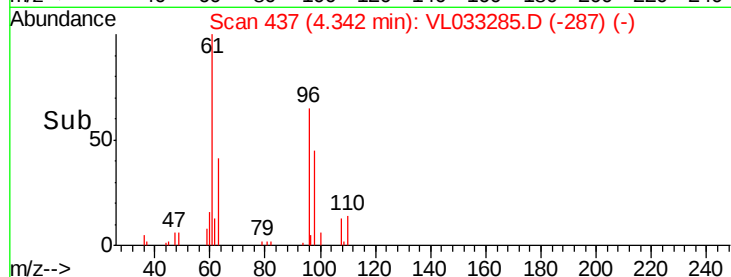
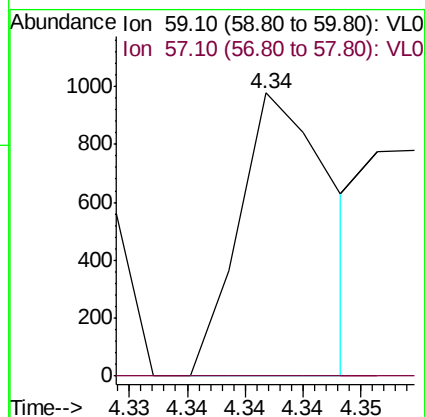
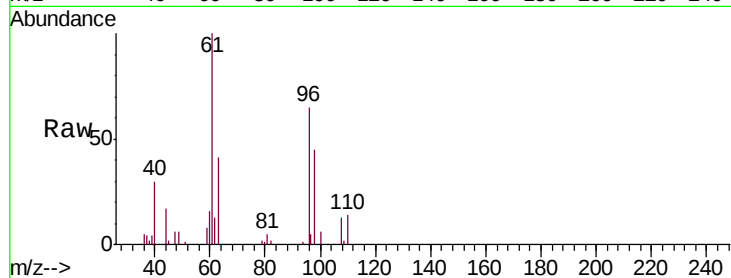
0.4 PPB MDL

Tgt Ion: 59 Resp: 543

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



#18

1,1-Dichloroethene

Concen: 0.446 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

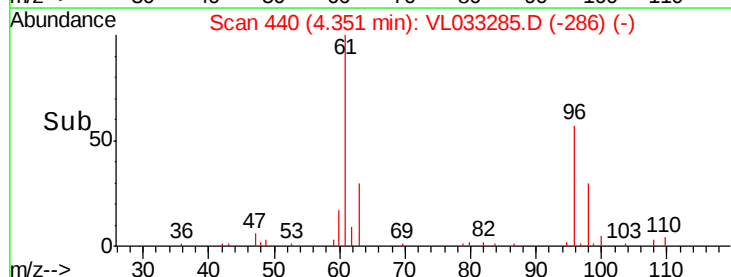
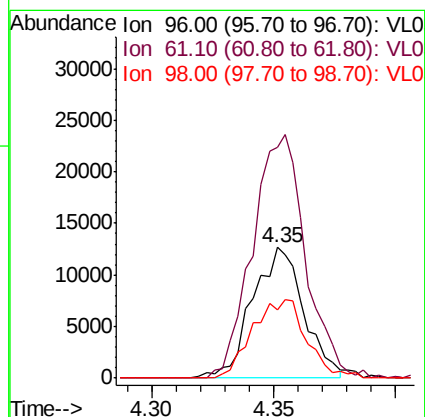
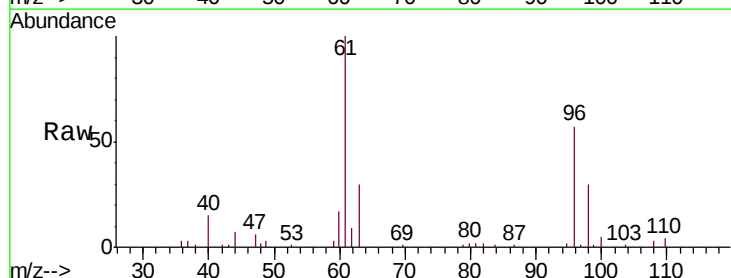
Tgt Ion: 96 Resp: 18508

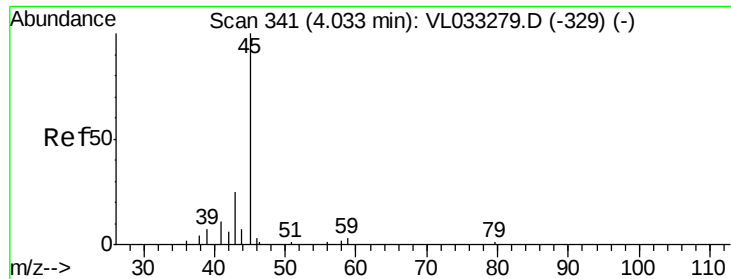
Ion Ratio Lower Upper

96 100

61 176.7 158.9 238.3

98 52.2 52.4 78.6#

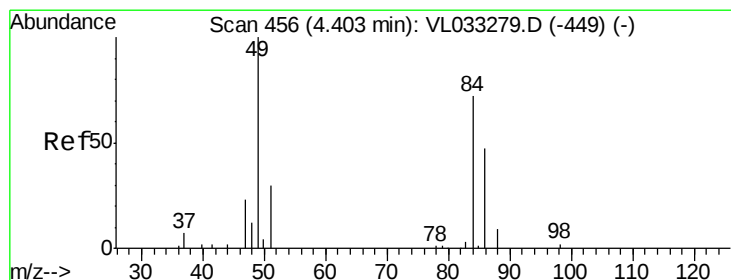
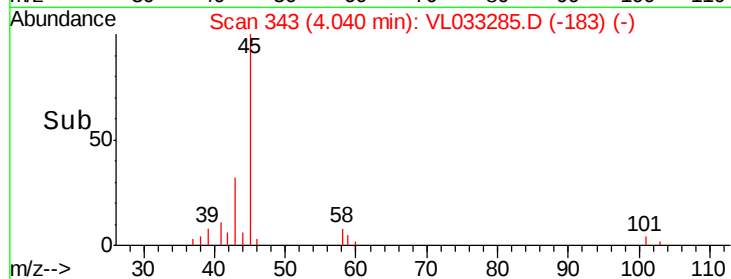
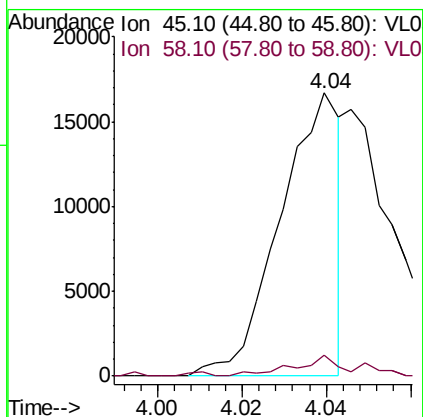
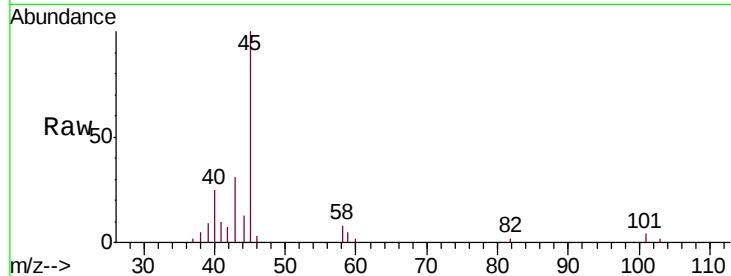




#19
Isopropyl Alcohol
Concen: 0.218 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

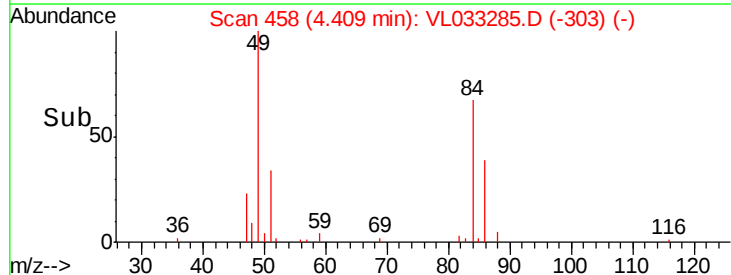
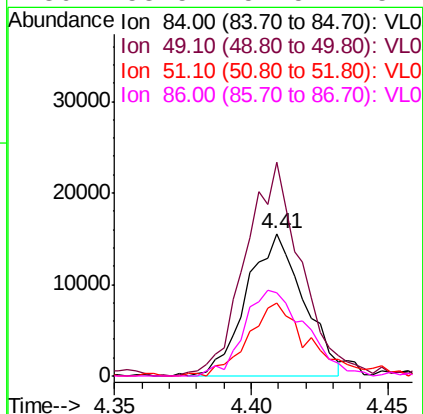
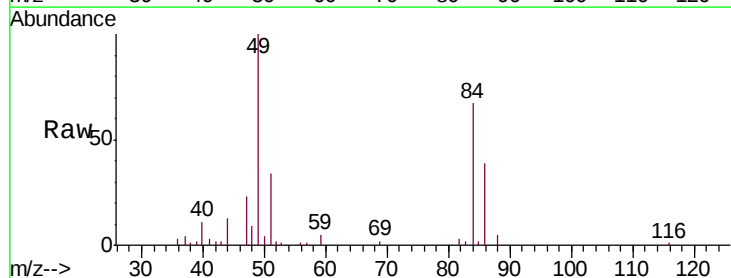
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

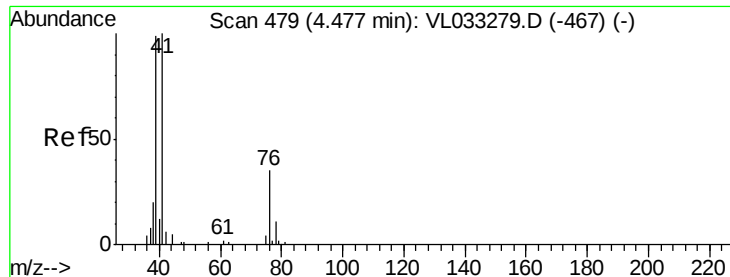
Tgt Ion: 45 Resp: 16525
Ion Ratio Lower Upper
45 100
58 7.7 1.4 2.2#



#20
Methylene Chloride
Concen: 0.539 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion: 84 Resp: 22486
Ion Ratio Lower Upper
84 100
49 147.3 120.3 180.5
51 49.2 36.2 54.4
86 58.5 52.5 78.7

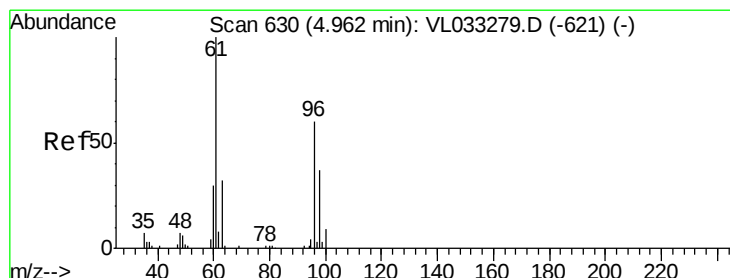
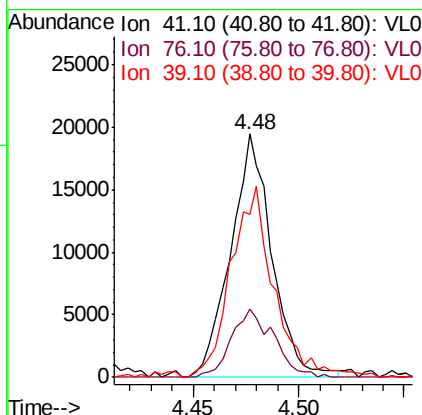
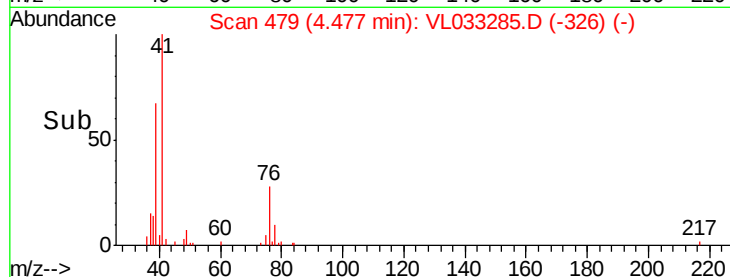
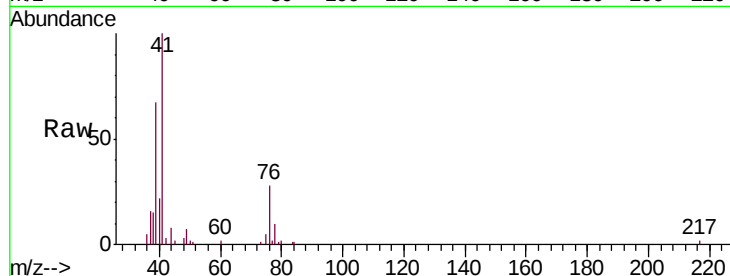




#21
 Allyl Chloride
 Concen: 0.422 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

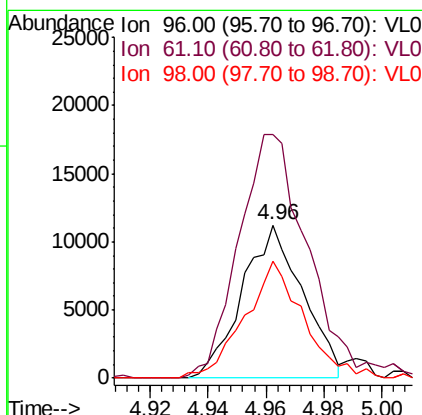
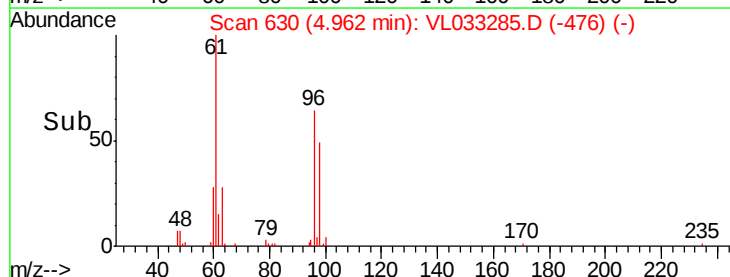
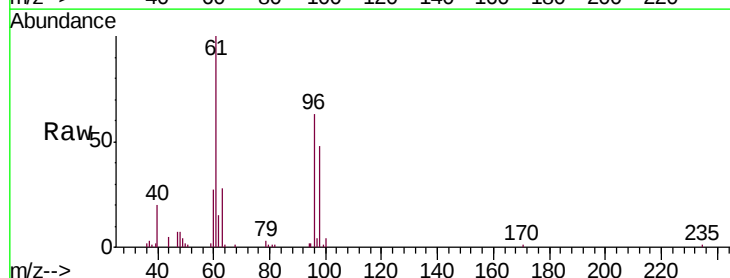
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

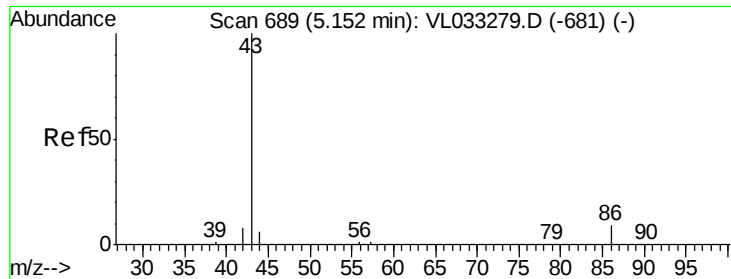
Tgt Ion: 41 Resp: 26376
 Ion Ratio Lower Upper
 41 100
 76 28.9 25.0 37.4
 39 83.3 64.2 96.4



#22
 trans-1,2-Dichloroethene
 Concen: 0.367 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 96 Resp: 16236
 Ion Ratio Lower Upper
 96 100
 61 168.3 131.6 197.4
 98 68.8 54.1 81.1





#23

Vinyl Acetate

Concen: 0.425 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

Tgt Ion: 43 Resp: 66921

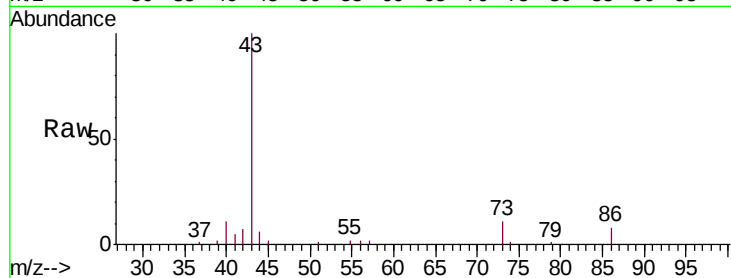
Ion Ratio Lower Upper

43 100

86 6.9 5.5 8.3

42 7.4 7.8 11.6#

44 3.3 3.6 5.4#

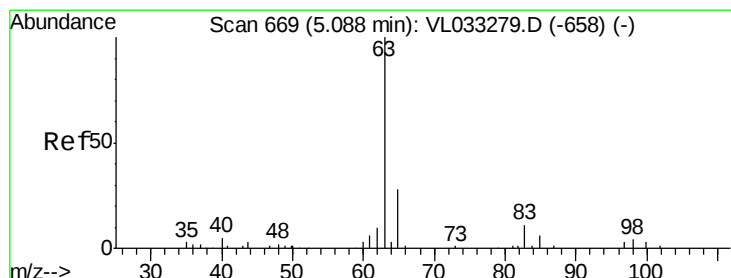
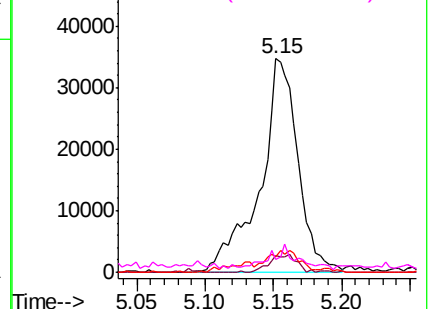
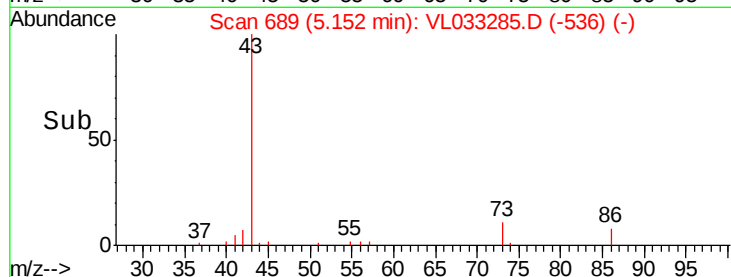


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.407 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

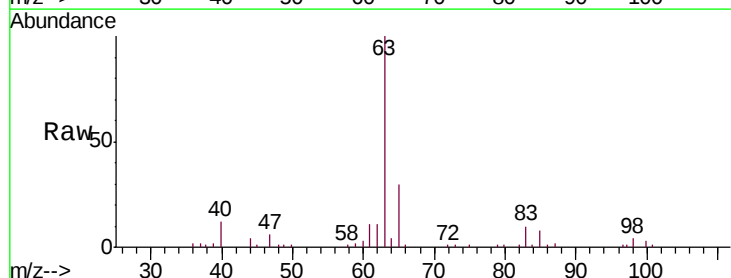
Tgt Ion: 63 Resp: 46392

Ion Ratio Lower Upper

63 100

98 4.4 2.2 6.6

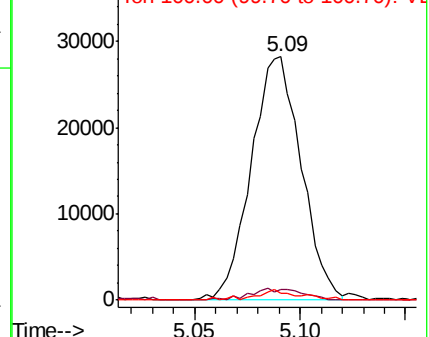
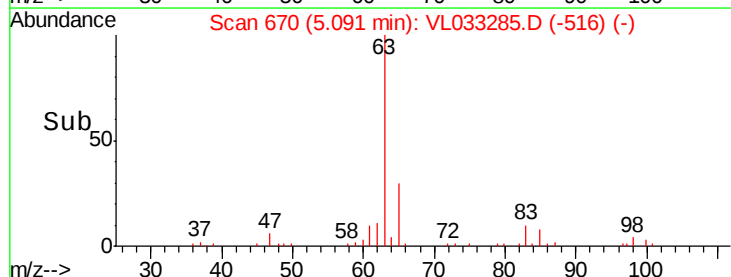
100 3.4 1.5 4.4

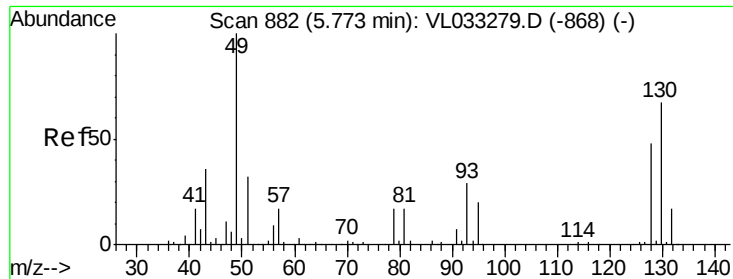


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

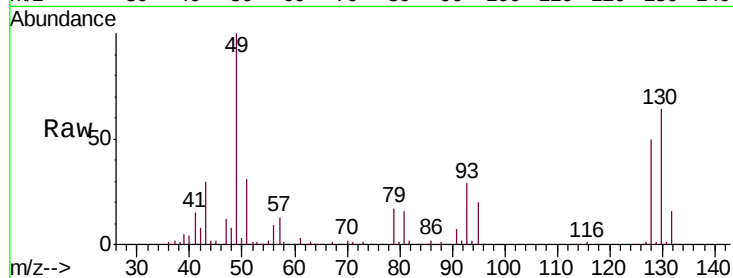




#25
Ethyl Acetate
Concen: 0.402 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:	43	Resp:	77775
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	8.7	7.3	10.9
70	6.9	5.8	8.6



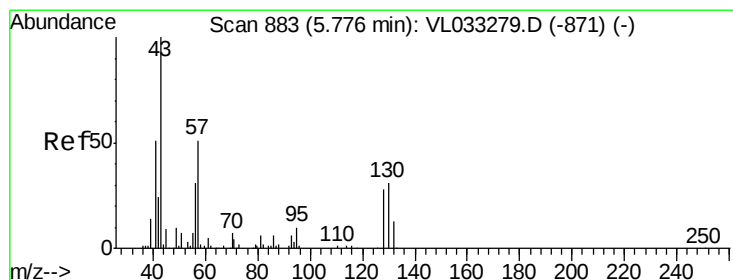
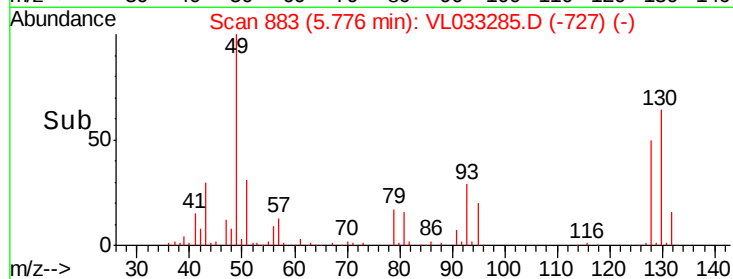
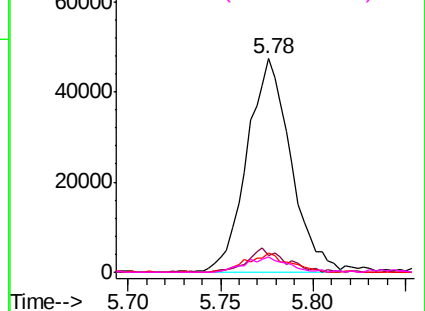
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

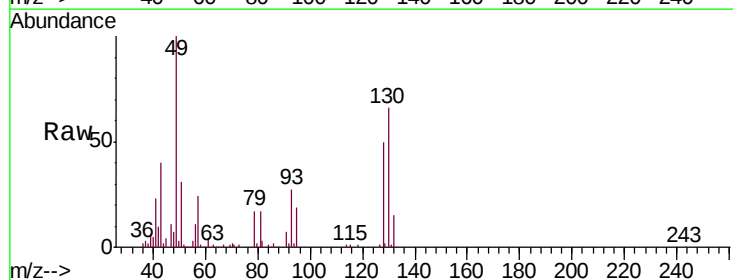
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.420 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion:	57	Resp:	38129
Ion	Ratio	Lower	Upper
57	100		
41	99.2	70.7	106.1
43	209.8	178.6	267.8
56	55.3	41.3	61.9



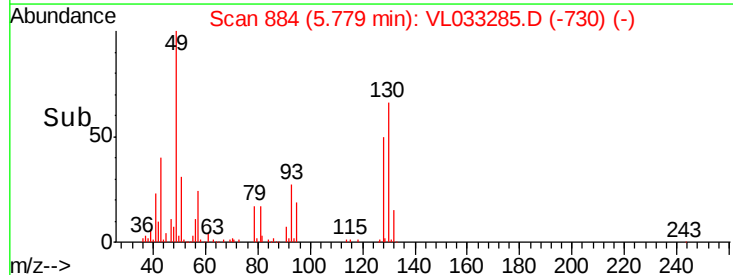
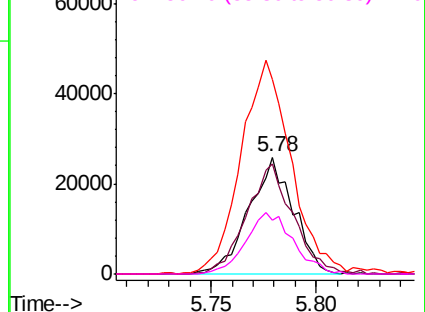
Abundance

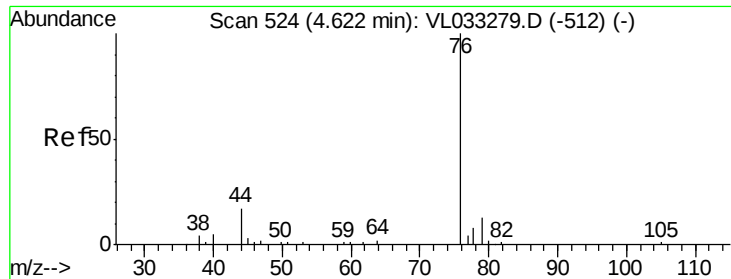
Ion 57.10 (56.80 to 57.80): VL0

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: 0.363 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

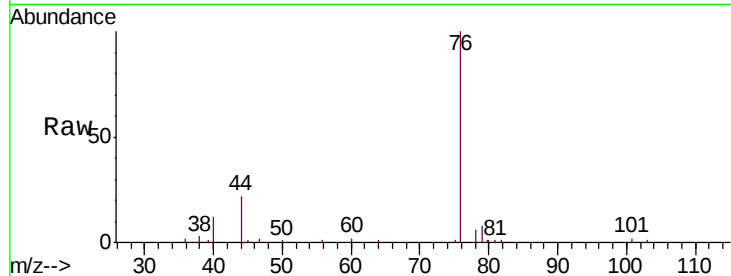
Tgt Ion: 76 Resp: 34940

Ion Ratio Lower Upper

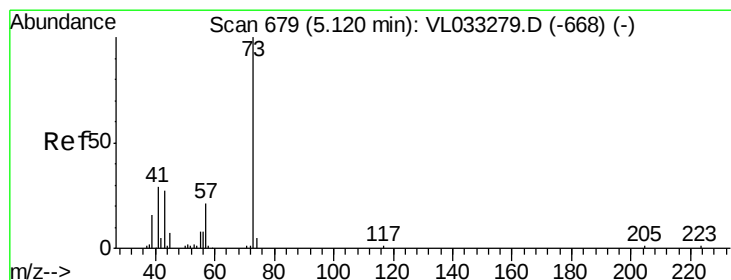
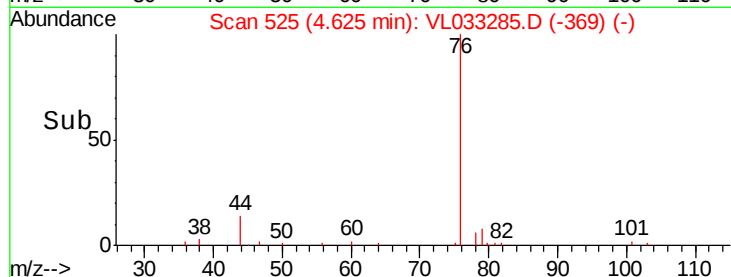
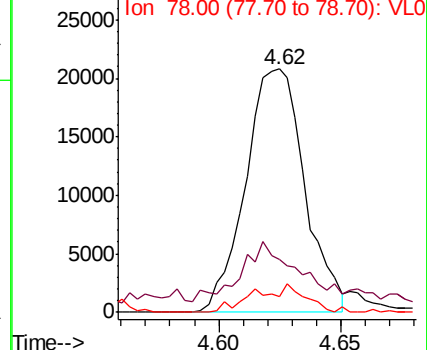
76 100

44 27.8 15.1 22.7#

78 9.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.364 ppbv

RT: 5.12 min Scan# 680

Delta R.T. 0.01 min

Lab File: VL033285.D

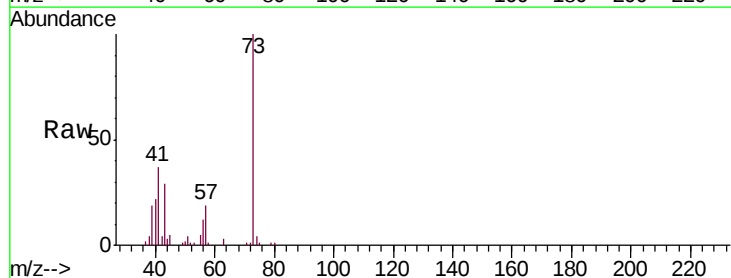
Acq: 12 Mar 2019 15:41

Tgt Ion: 73 Resp: 46957

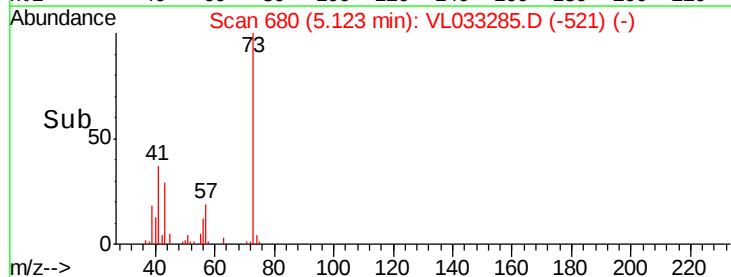
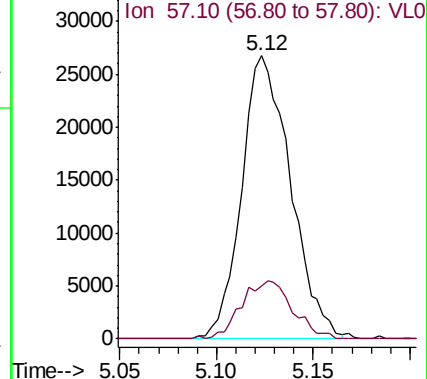
Ion Ratio Lower Upper

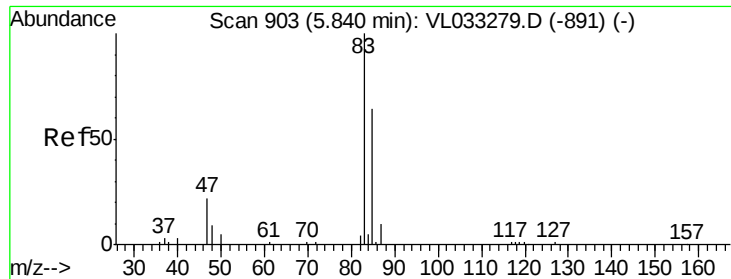
73 100

57 21.4 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

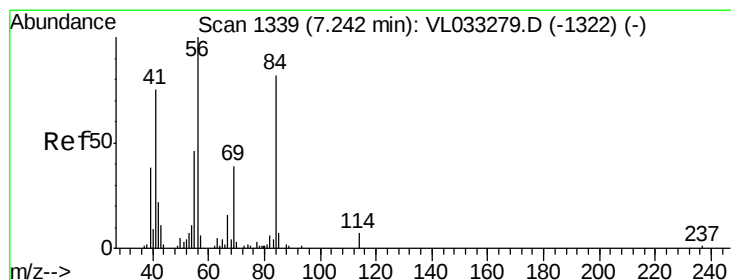
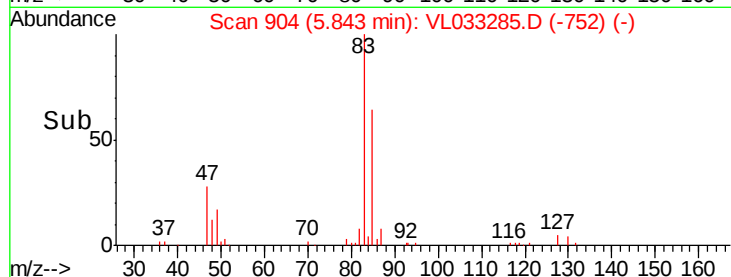
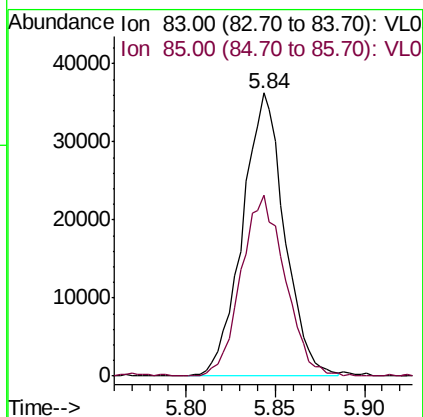
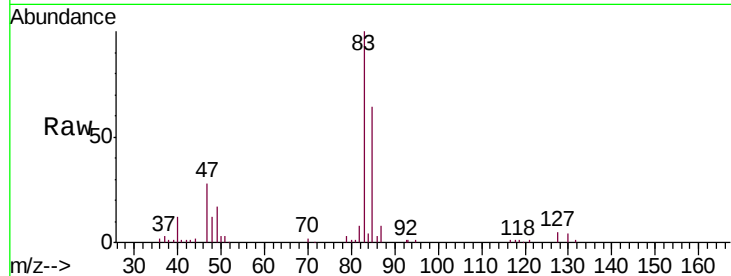




#29
Chloroform
Concen: 0.431 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

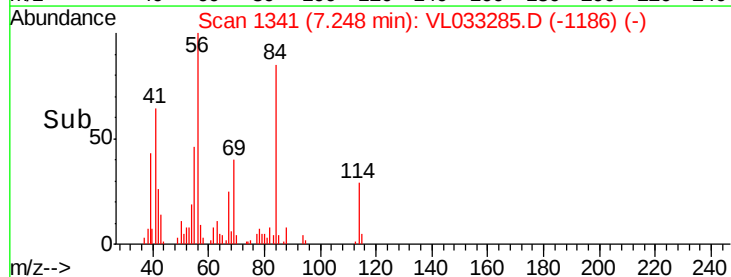
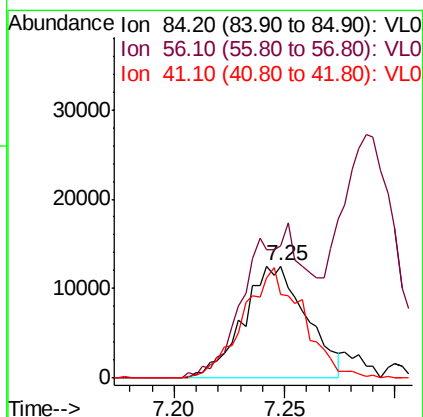
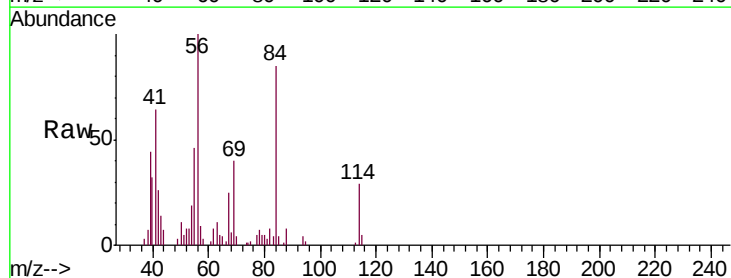
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

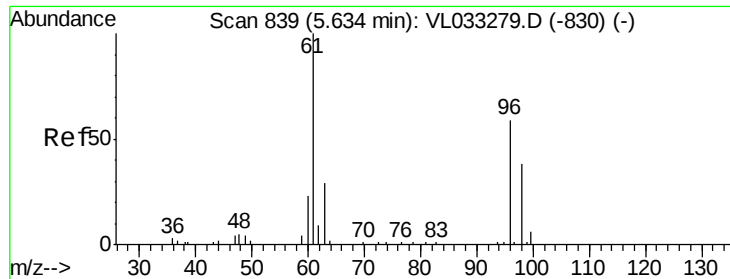
Tgt Ion: 83 Resp: 59613
Ion Ratio Lower Upper
83 100
85 64.4 52.5 78.7



#30
Cyclohexane
Concen: 0.354 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion: 84 Resp: 24958
Ion Ratio Lower Upper
84 100
56 123.1 112.0 168.0
41 92.6 69.9 104.9



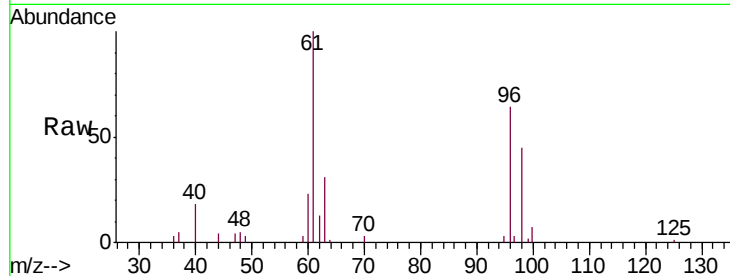


#31

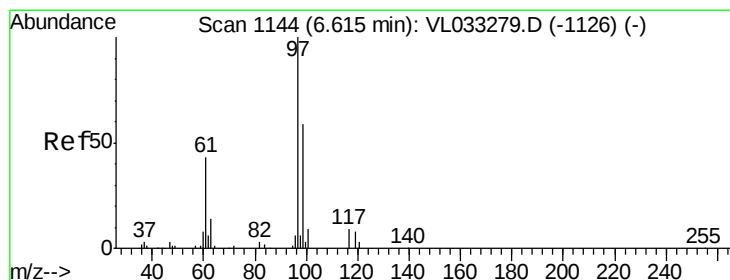
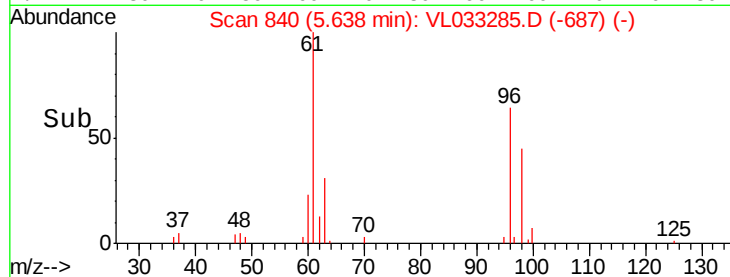
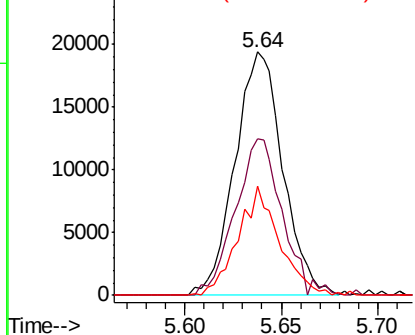
cis-1,2-Dichloroethene
 Concen: 0.383 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

Tgt Ion: 61 Resp: 33373
 Ion Ratio Lower Upper
 61 100
 96 67.5 51.8 77.8
 98 44.7 32.9 49.3



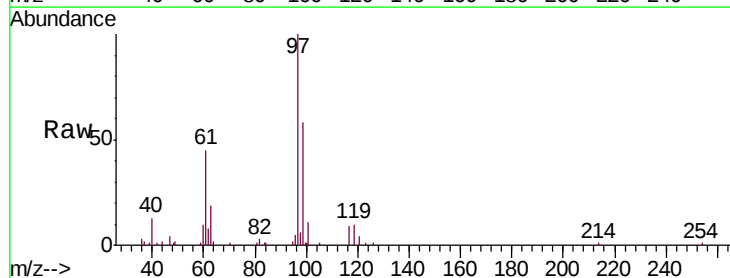
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



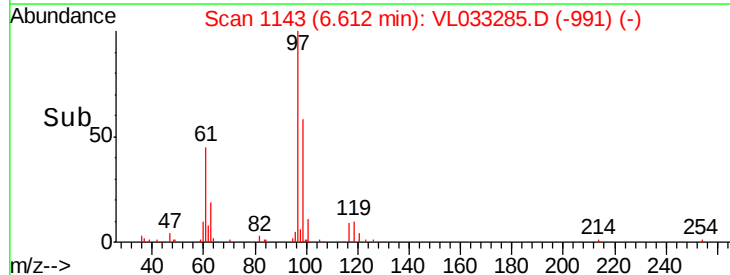
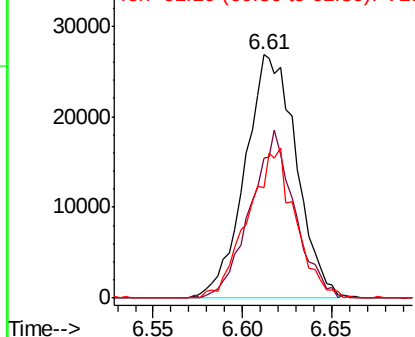
#32

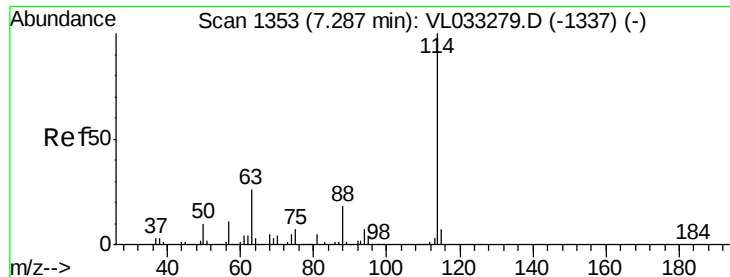
1,1,1-Trichloroethane
 Concen: 0.400 ppbv
 RT: 6.61 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 97 Resp: 53800
 Ion Ratio Lower Upper
 97 100
 99 59.4 51.7 77.5
 61 56.9 39.7 59.5



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

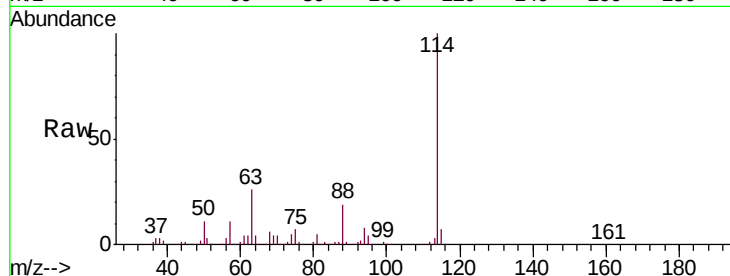




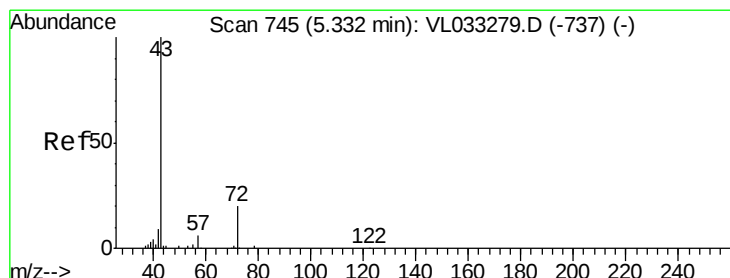
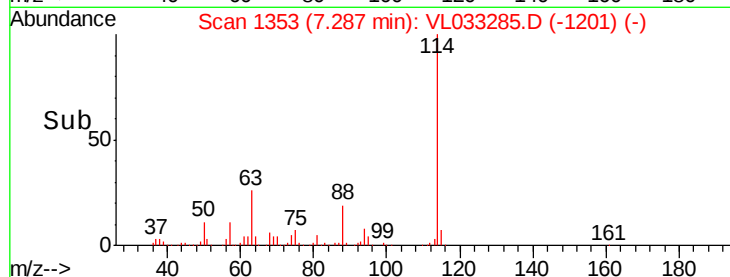
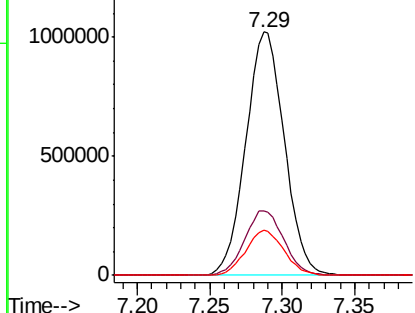
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

Tgt Ion: 114 Resp: 1893341
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.5 32.3
 88 18.4 14.6 22.0

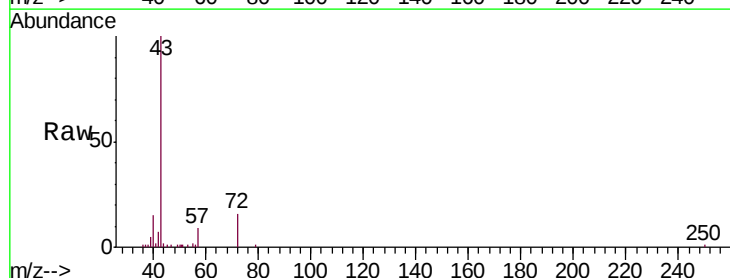


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

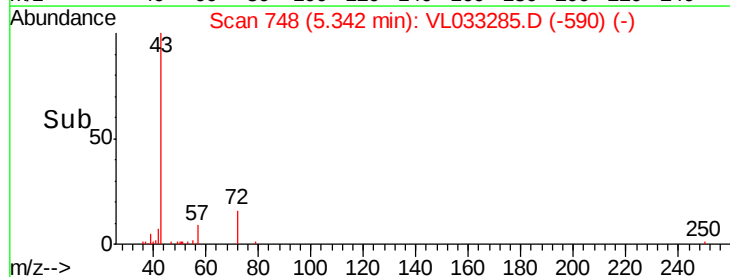
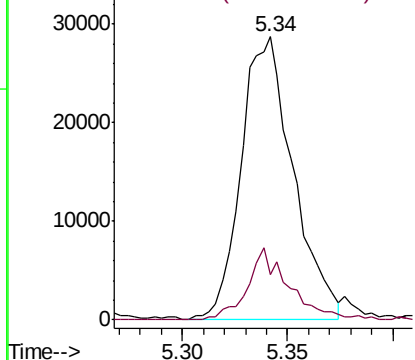


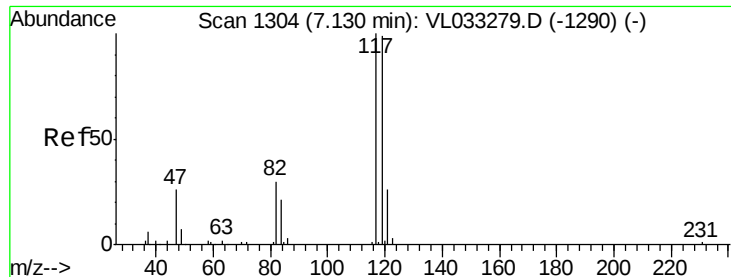
#34
 2-Butanone
 Concen: 0.393 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 43 Resp: 49206
 Ion Ratio Lower Upper
 43 100
 72 20.7 17.0 25.6



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





#35

Carbon Tetrachloride

Concen: 0.401 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

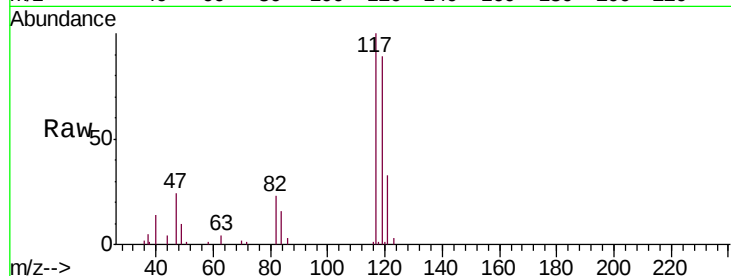
Tgt Ion: 117 Resp: 55520

Ion Ratio Lower Upper

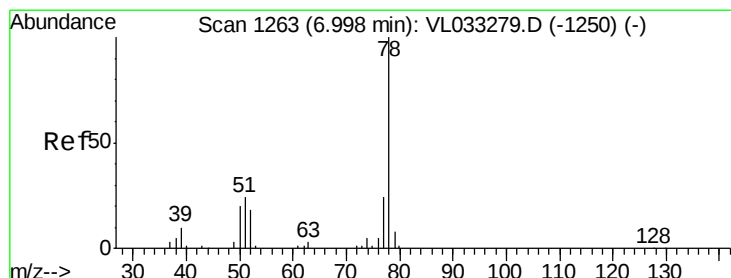
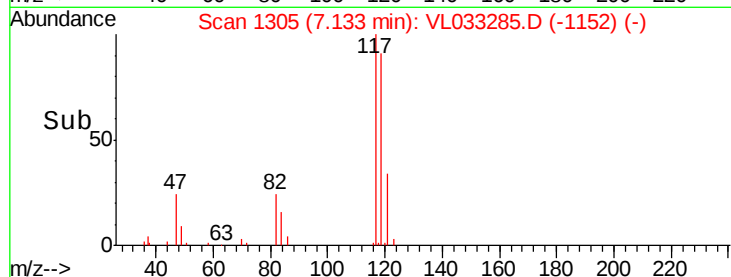
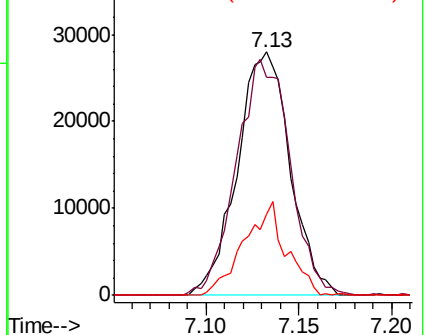
117 100

119 88.4 77.4 116.0

121 33.3 24.9 37.3



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: 0.384 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

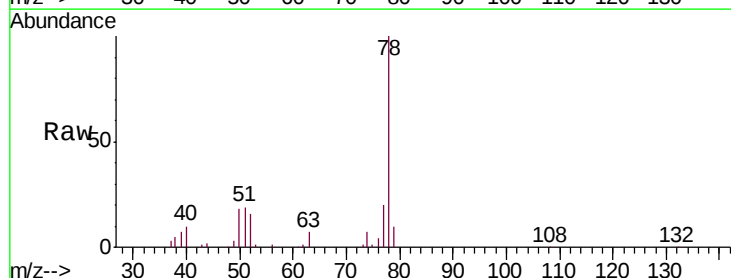
Tgt Ion: 78 Resp: 67027

Ion Ratio Lower Upper

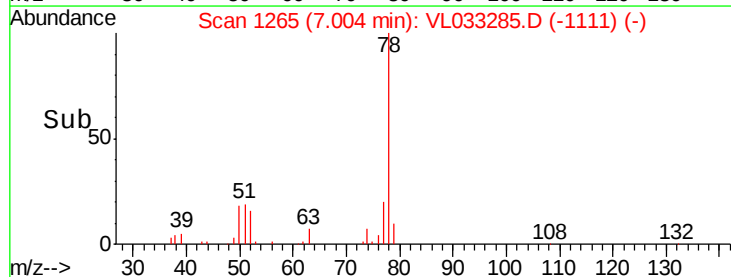
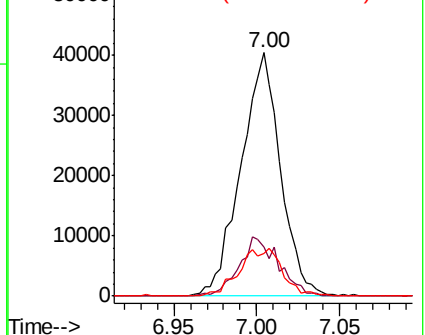
78 100

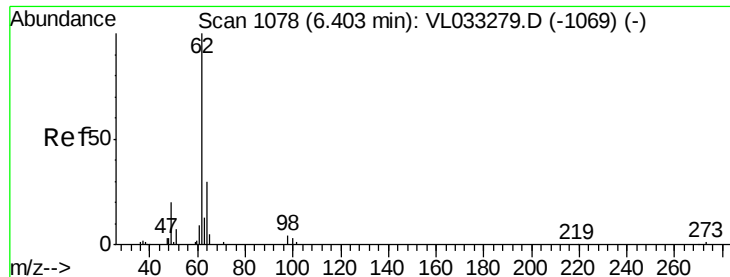
77 20.3 17.7 26.5

50 17.8 15.7 23.5



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: 0.243 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

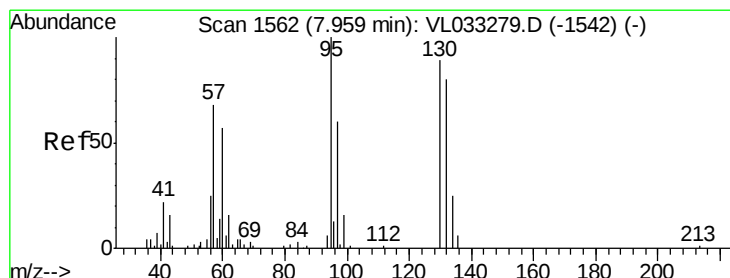
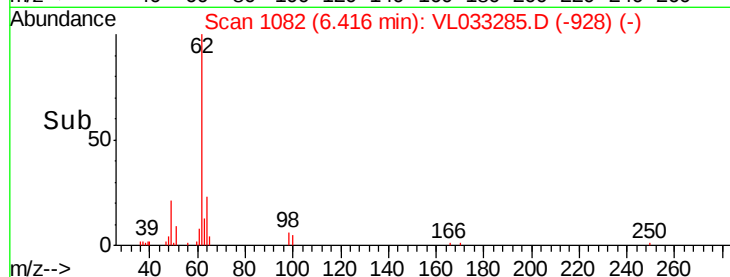
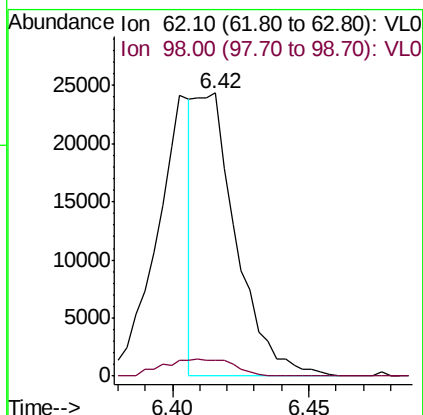
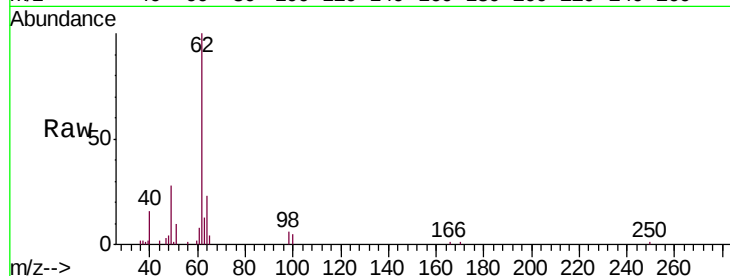
0.4 PPB MDL

Tgt Ion: 62 Resp: 25457

Ion Ratio Lower Upper

62 100

98 10.4 4.5 6.7#



#38

Trichloroethene

Concen: 0.401 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Tgt Ion: 130 Resp: 27296

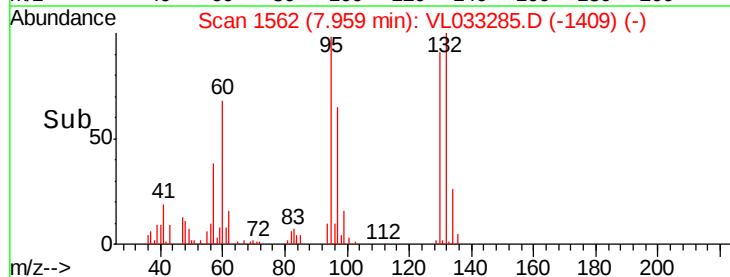
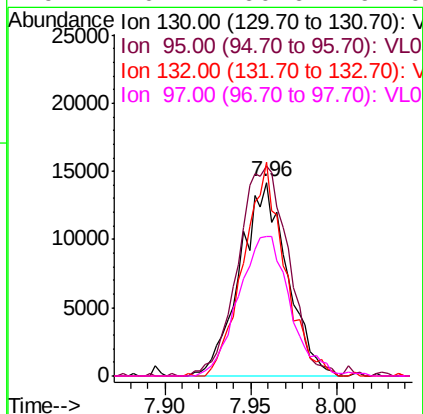
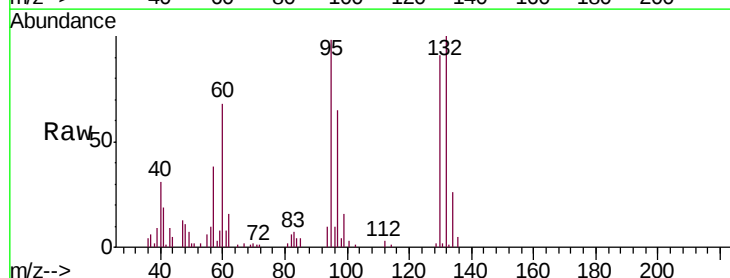
Ion Ratio Lower Upper

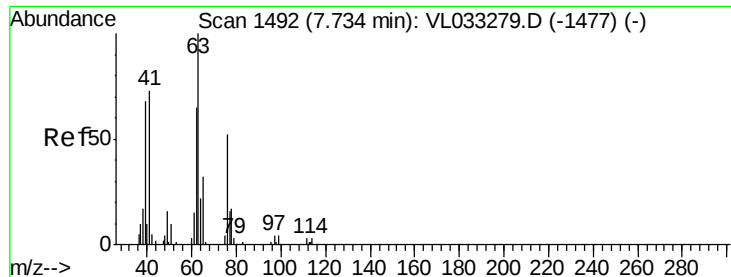
130 100

95 105.6 93.3 139.9

132 109.4 75.4 113.2

97 70.2 60.6 91.0

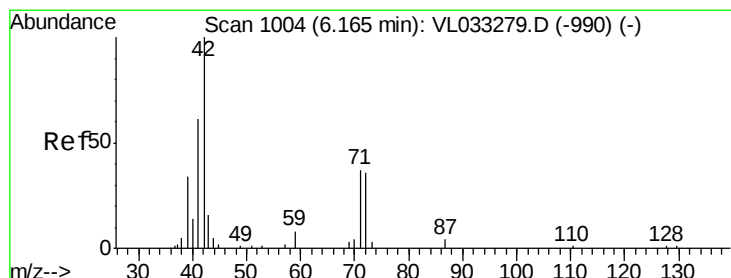
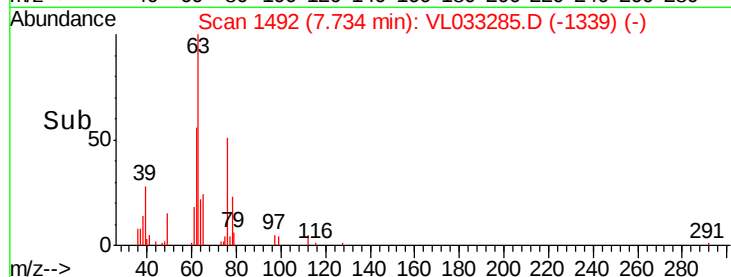
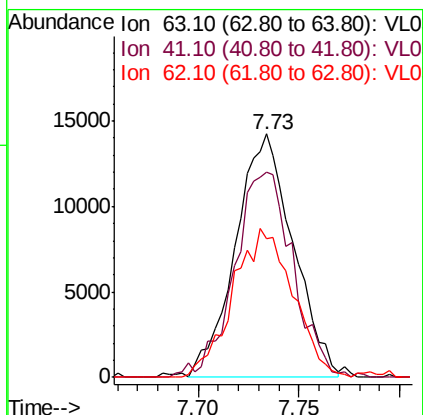
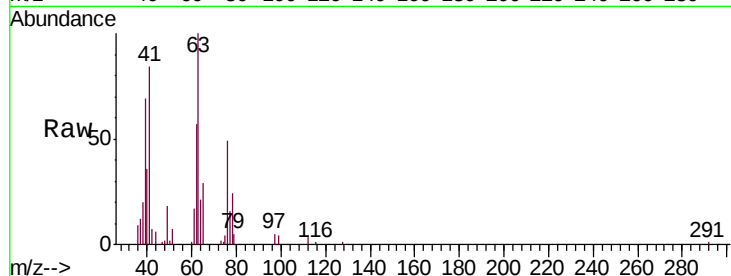




#39
 1,2-Dichloropropane
 Concen: 0.431 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

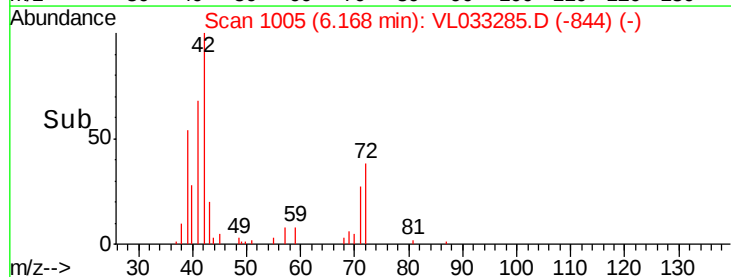
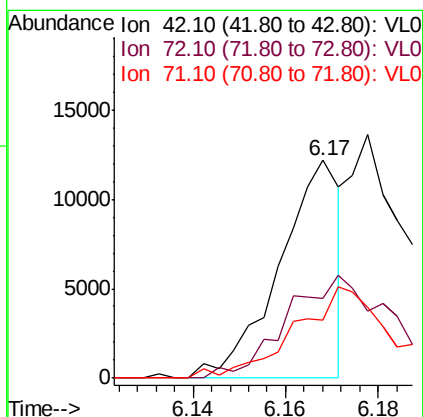
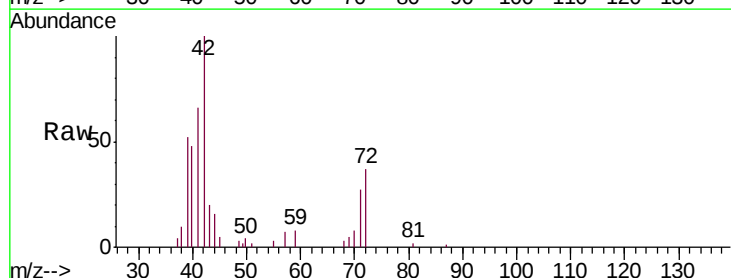
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

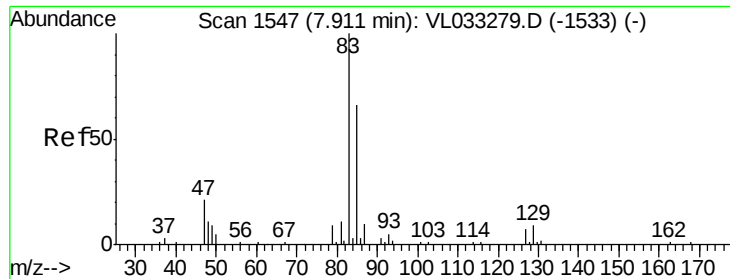
Tgt Ion	Ratio	Lower	Upper
63	100		
41	82.5	58.3	87.5
62	55.6	55.3	82.9



#41
 Tetrahydrofuran
 Concen: 0.160 ppbv
 RT: 6.17 min Scan# 1005
 Delta R.T. 0.02 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion	Ratio	Lower	Upper
42	100		
72	90.4	30.6	46.0#
71	77.0	29.7	44.5#





#42

Bromodichloromethane

Concen: 0.390 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

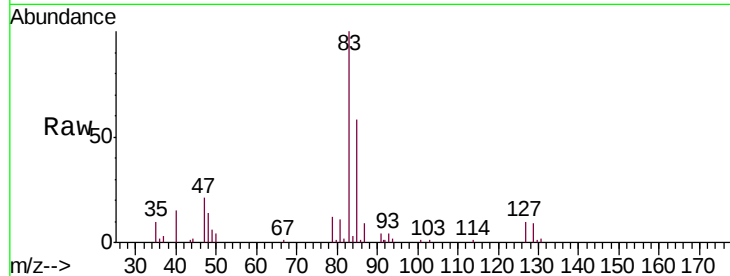
Tgt Ion: 83 Resp: 56173

Ion Ratio Lower Upper

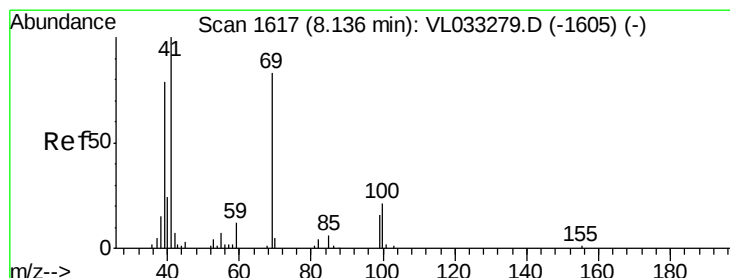
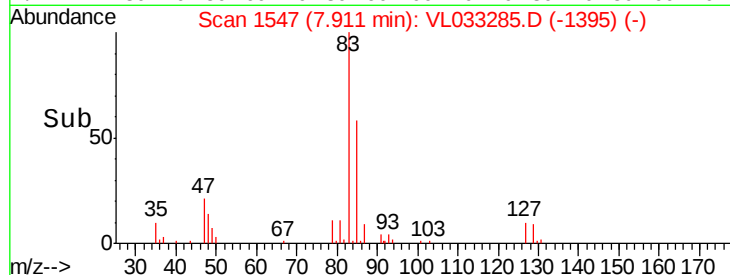
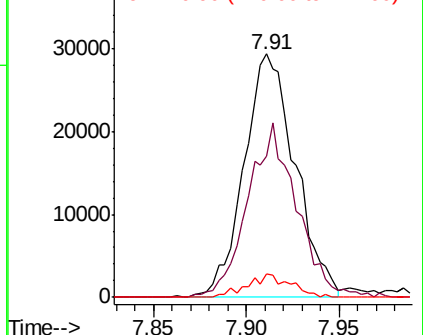
83 100

85 57.9 51.0 76.4

127 9.7 6.0 9.0#



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): VL0



#43

Methyl Methacrylate

Concen: 0.214 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

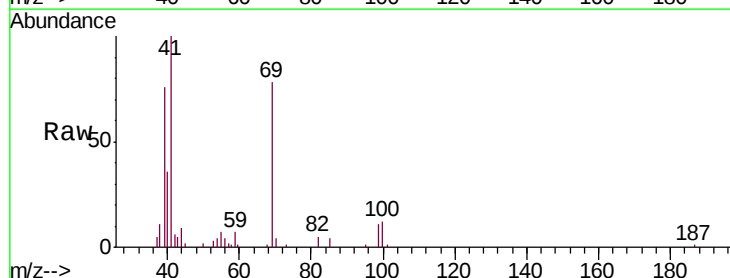
Tgt Ion: 69 Resp: 14579

Ion Ratio Lower Upper

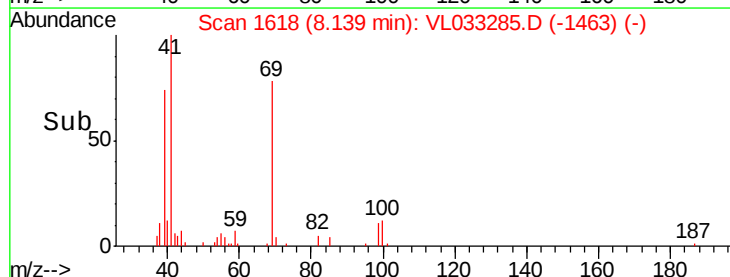
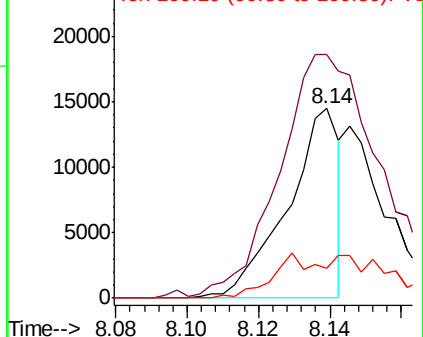
69 100

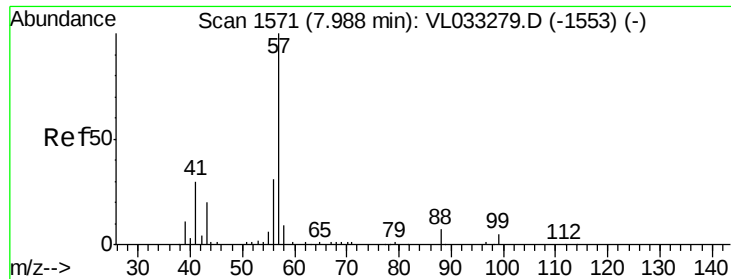
41 257.3 121.0 181.4#

100 47.0 24.4 36.6#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

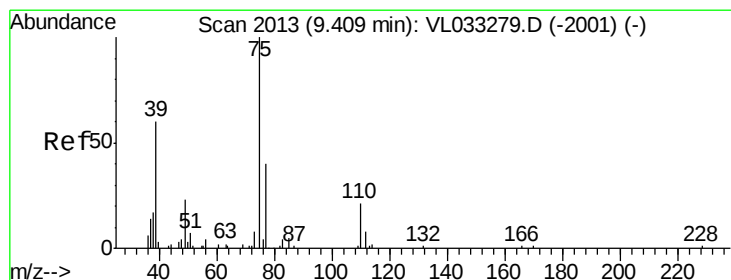
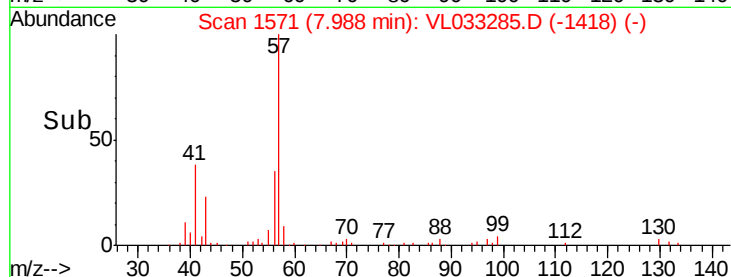
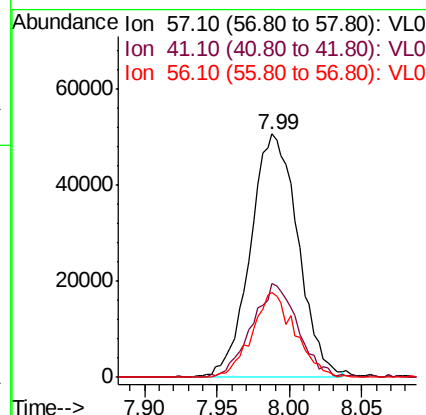
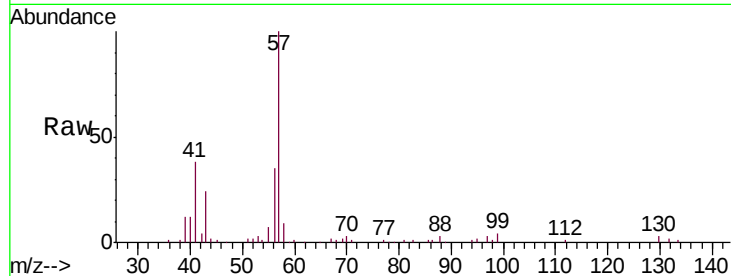




#44
 2,2,4-Trimethylpentane
 Concen: 0.389 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

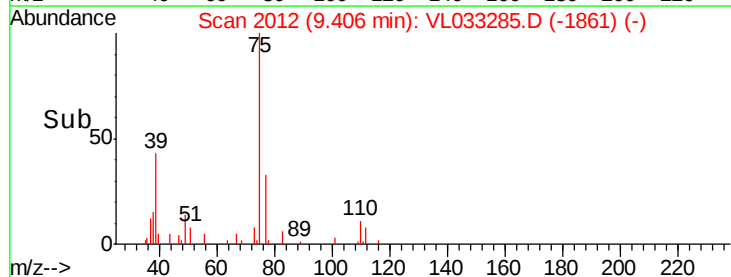
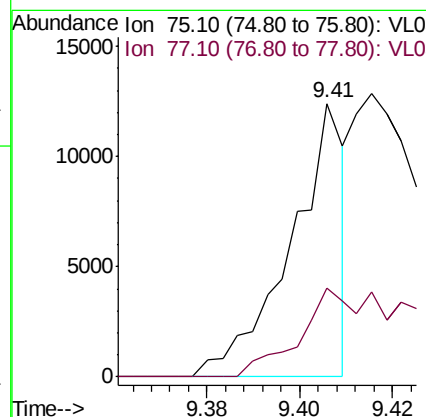
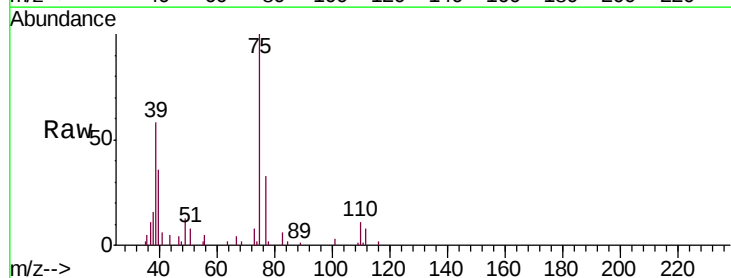
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

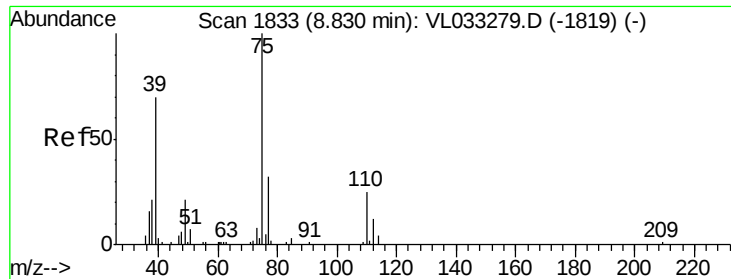
Tgt Ion: 57 Resp: 115388
 Ion Ratio Lower Upper
 57 100
 41 37.6 26.2 39.2
 56 31.7 24.8 37.2



#45
 t-1,3-Dichloropropene
 Concen: 0.119 ppbv
 RT: 9.41 min Scan# 2012
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 75 Resp: 9970
 Ion Ratio Lower Upper
 75 100
 77 32.6 24.4 36.6

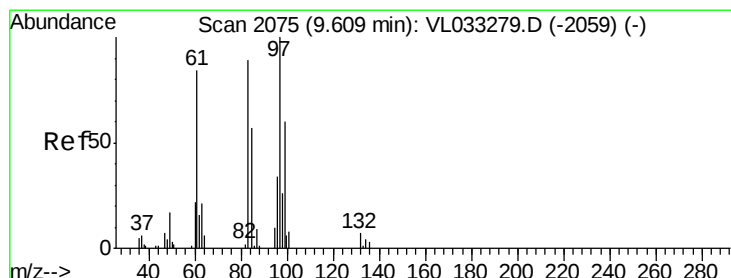
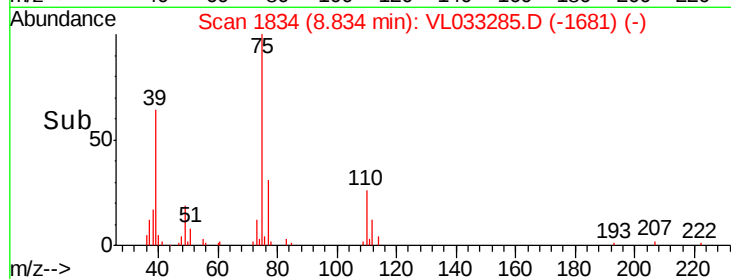
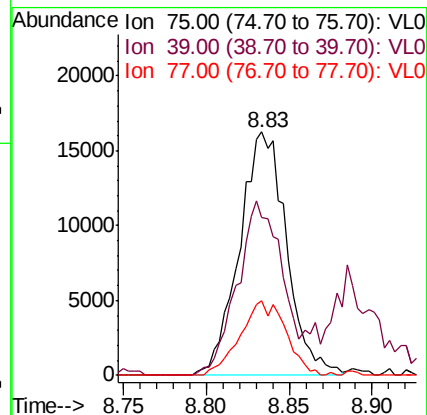
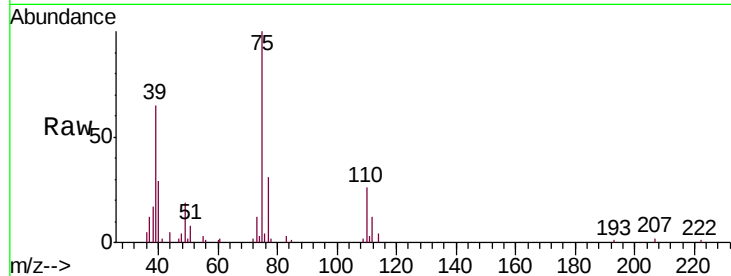




#46
 cis-1,3-Dichloropropene
 Concen: 0.329 ppbv
 RT: 8.83 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

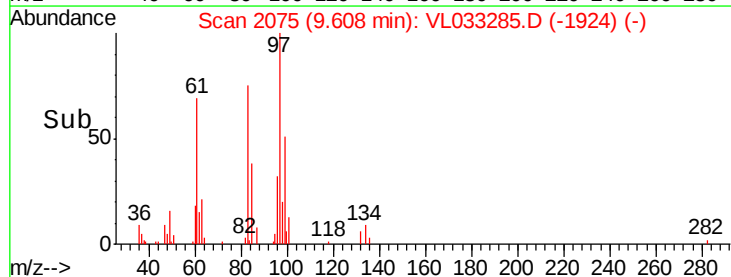
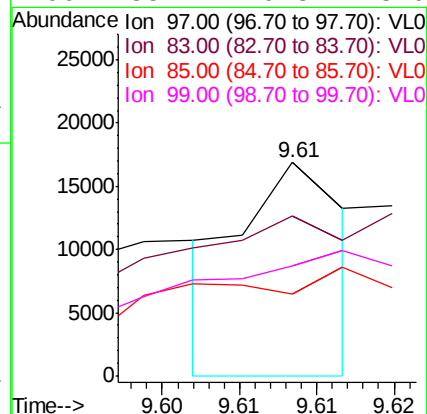
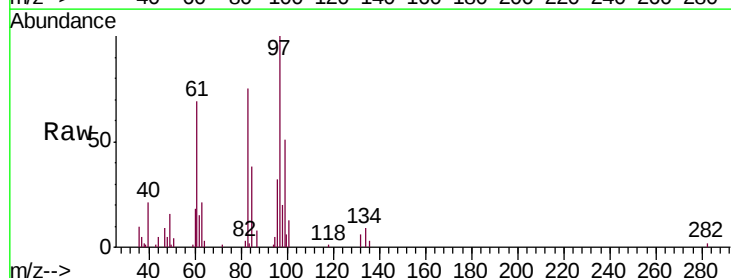
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

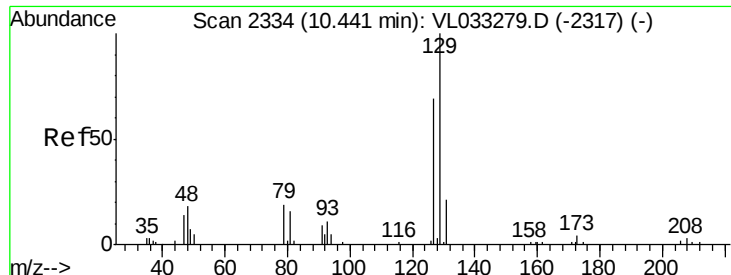
Tgt Ion: 75 Resp: 32248
 Ion Ratio Lower Upper
 75 100
 39 64.6 54.2 81.2
 77 30.8 24.5 36.7



#47
 1,1,2-Trichloroethane
 Concen: 0.114 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 97 Resp: 7969
 Ion Ratio Lower Upper
 97 100
 83 42.9 71.0 106.4#
 85 0.0 48.2 72.4#
 99 33.4 49.3 73.9#





#48

Dibromochloromethane

Concen: 0.368 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

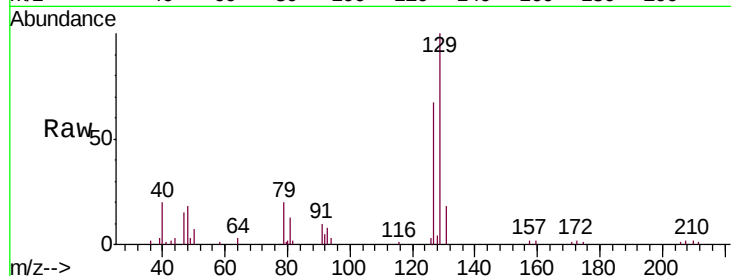
0.4 PPB MDL

Tgt Ion:129 Resp: 42307

Ion Ratio Lower Upper

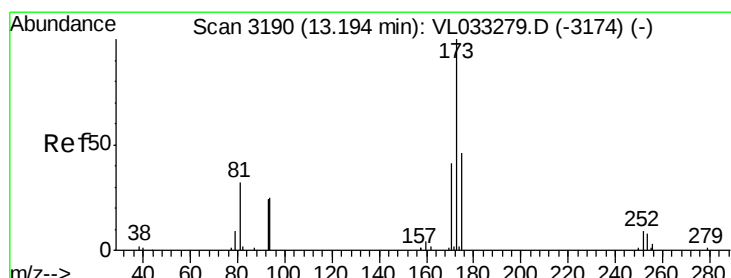
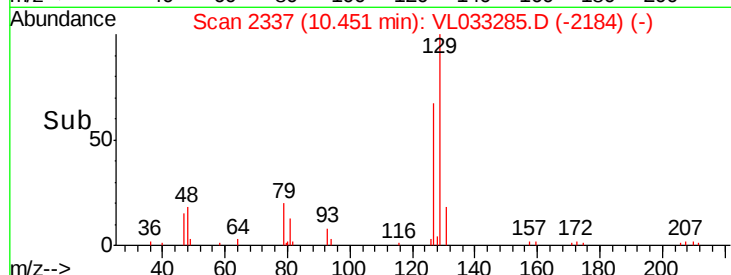
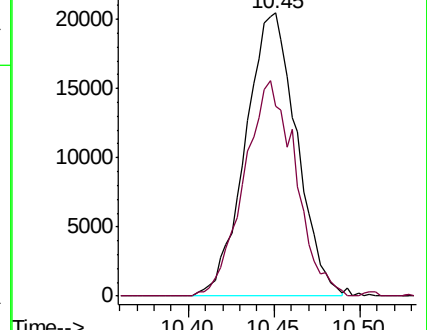
129 100

127 76.9 38.9 116.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.160 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

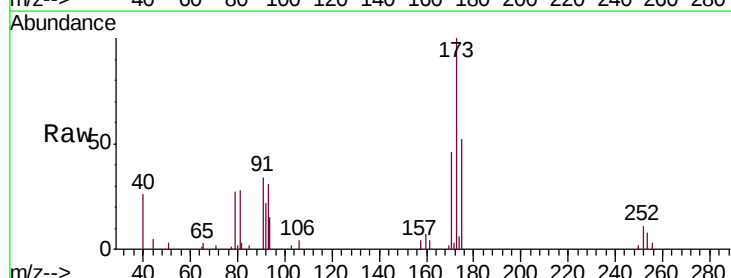
Tgt Ion:173 Resp: 14961

Ion Ratio Lower Upper

173 100

175 0.0 39.0 58.6#

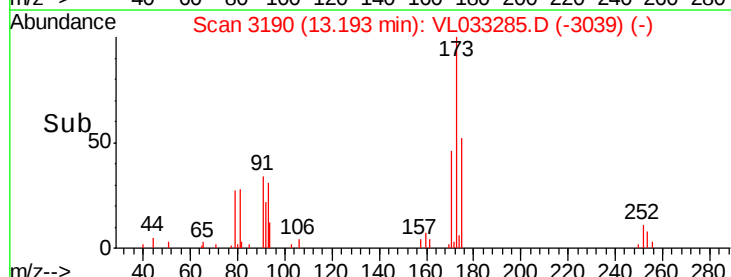
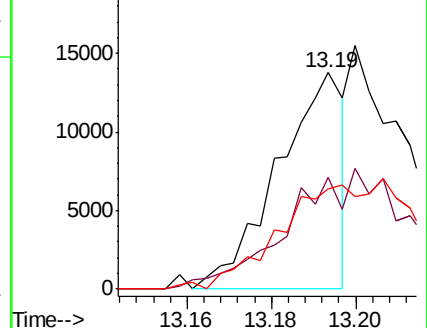
171 0.0 41.2 61.8#

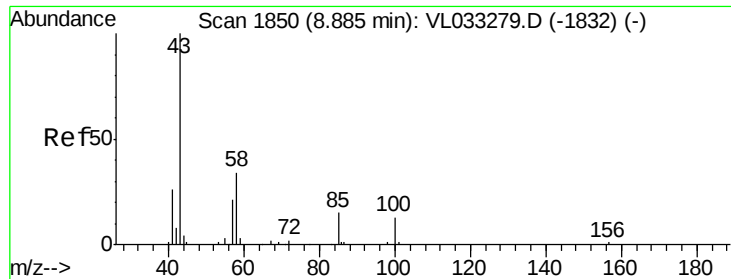


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

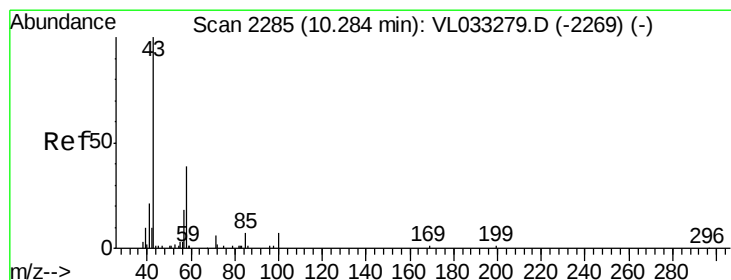
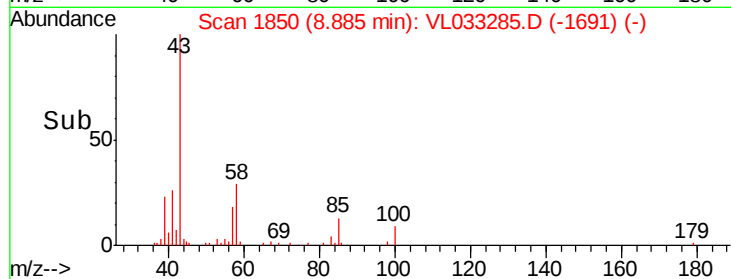
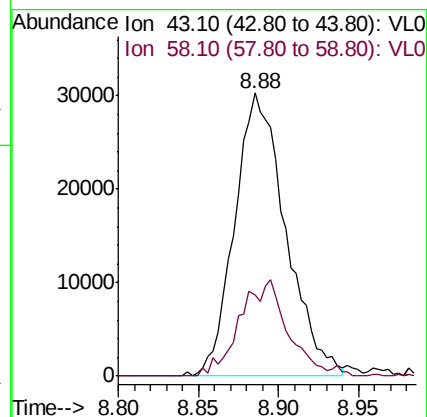
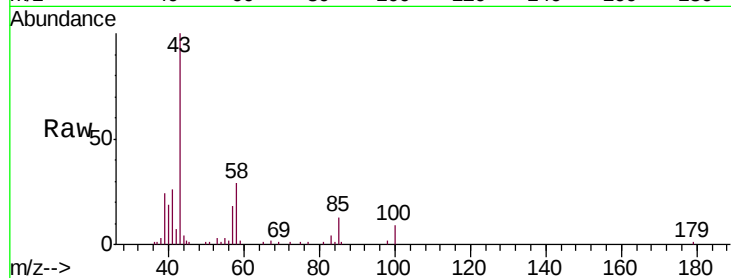




#50
 4-Methyl-2-Pentanone
 Concen: 0.371 ppbv
 RT: 8.88 min Scan# 1850
 Delta R.T. 0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

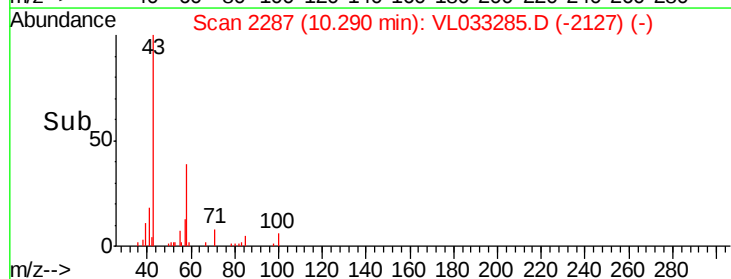
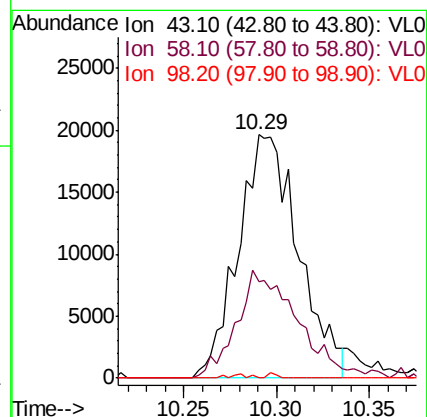
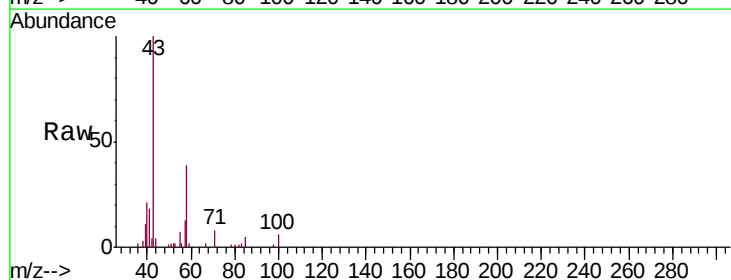
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

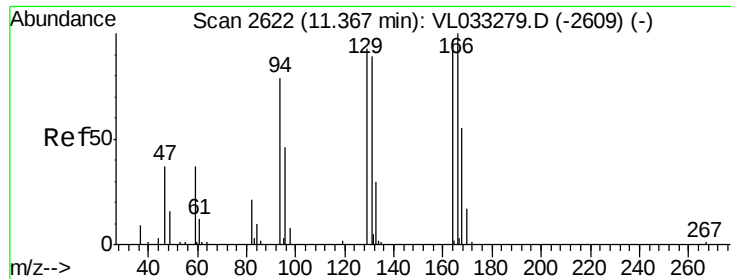
Tgt Ion: 43 Resp: 66247
 Ion Ratio Lower Upper
 43 100
 58 32.8 28.0 42.0



#51
 2-Hexanone
 Concen: 0.327 ppbv
 RT: 10.29 min Scan# 2287
 Delta R.T. 0.02 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion: 43 Resp: 44592
 Ion Ratio Lower Upper
 43 100
 58 44.2 38.1 57.1
 98 0.7 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.253 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

Tgt Ion:164 Resp: 16190

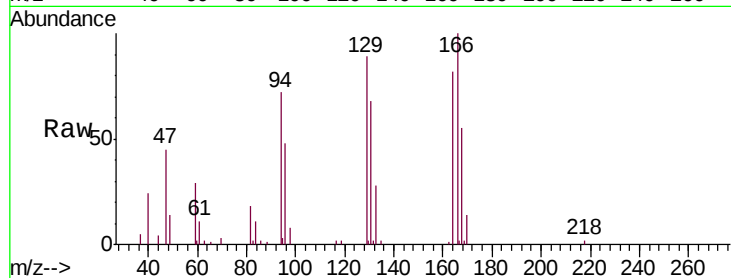
Ion Ratio Lower Upper

164 100

166 113.3 100.8 151.2

129 102.3 80.6 121.0

131 81.1 79.2 118.8

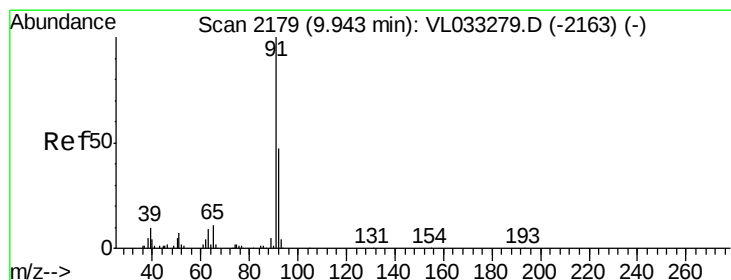
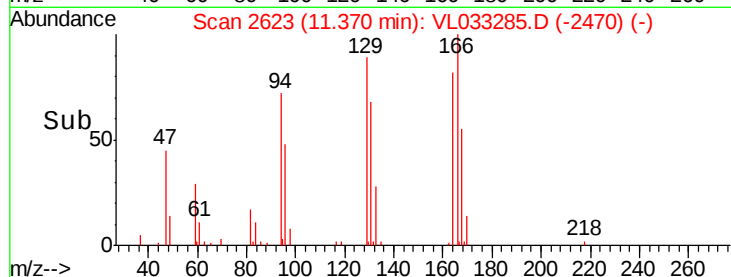
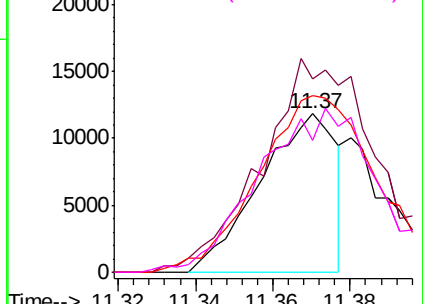


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.346 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033285.D

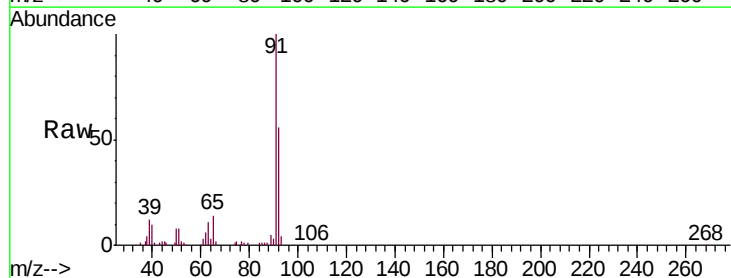
Acq: 12 Mar 2019 15:41

Tgt Ion: 91 Resp: 69544

Ion Ratio Lower Upper

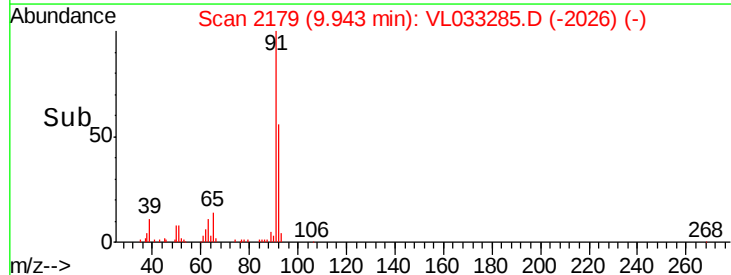
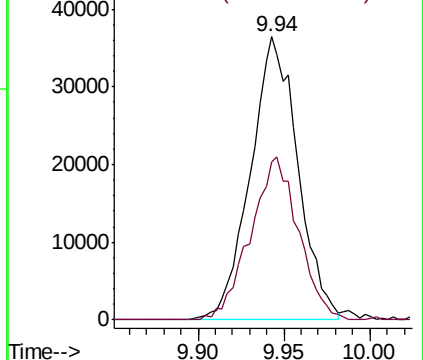
91 100

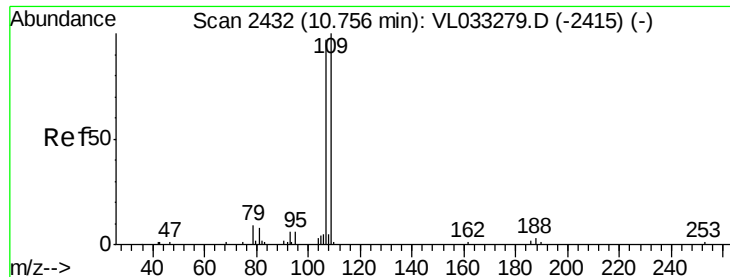
92 58.3 47.8 71.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

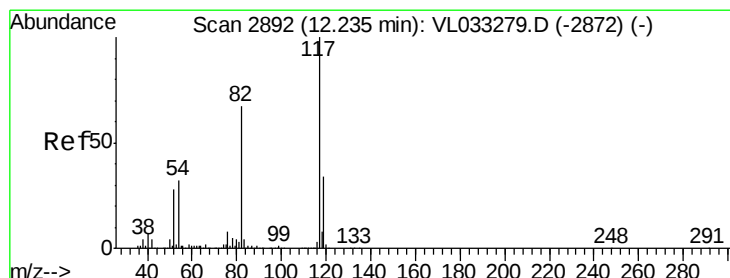
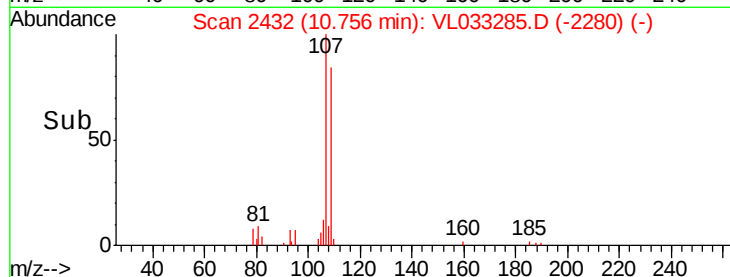
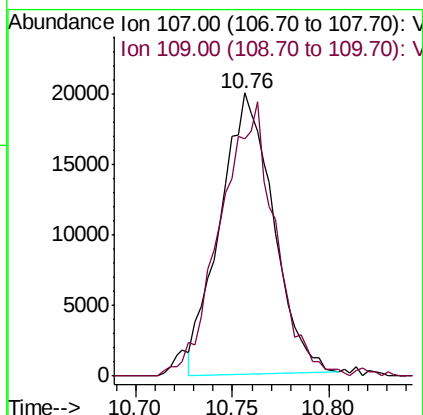
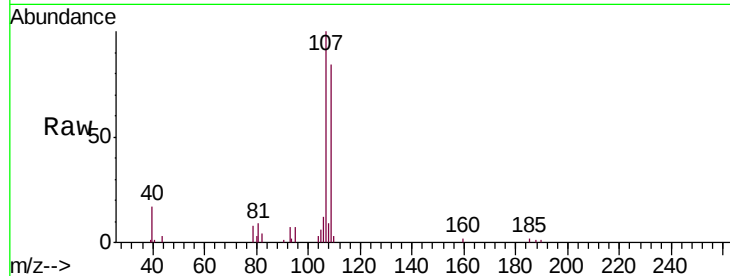




#54
 1,2-Dibromoethane
 Concen: 0.353 ppbv
 RT: 10.76 min Scan# 2432
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

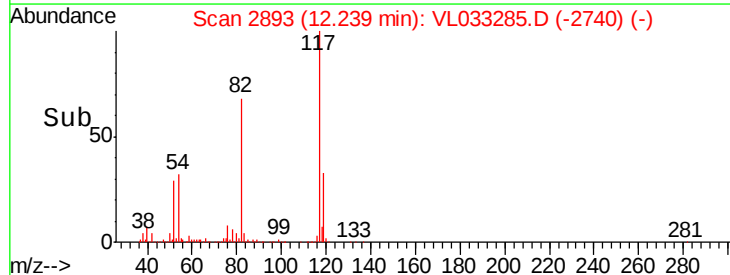
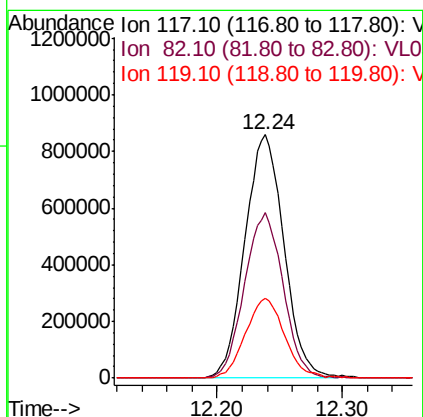
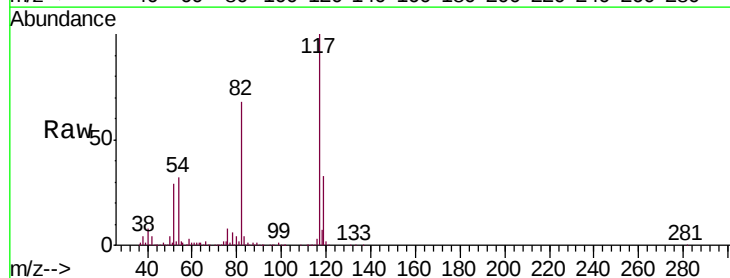
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

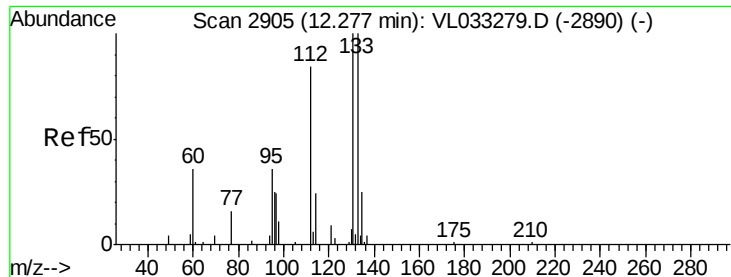
Tgt Ion:107 Resp: 38078
 Ion Ratio Lower Upper
 107 100
 109 83.1 74.2 111.2



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.24 min Scan# 2893
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion:117 Resp: 1861477
 Ion Ratio Lower Upper
 117 100
 82 67.4 51.1 76.7
 119 33.2 43.6 65.4#

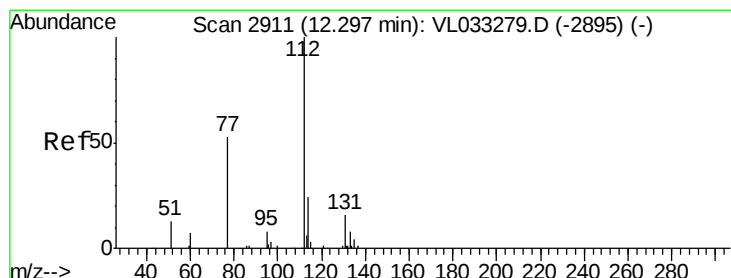
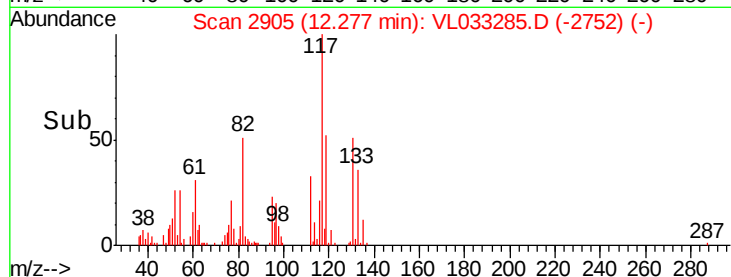
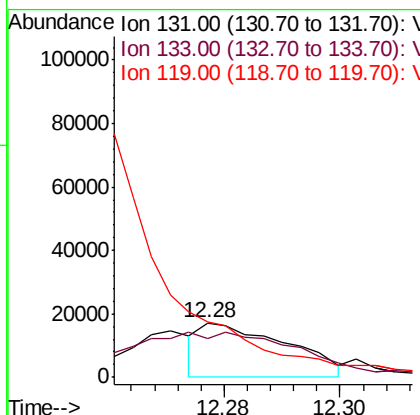
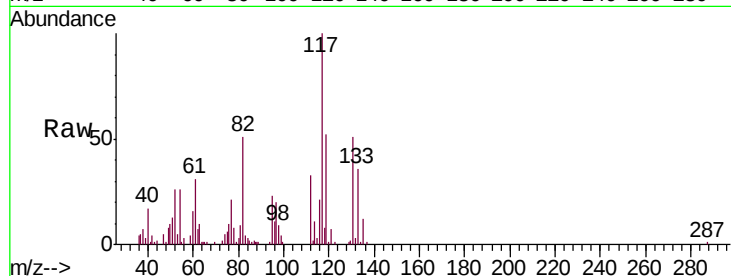




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.226 ppbv
 RT: 12.28 min Scan# 2905
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

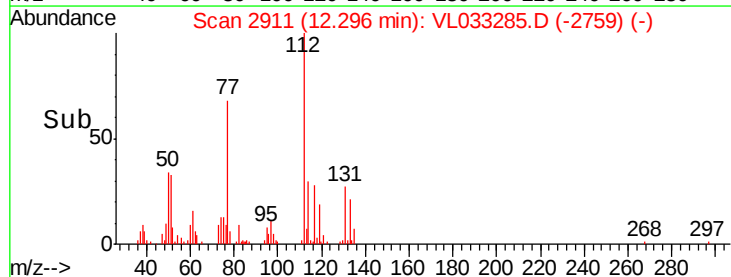
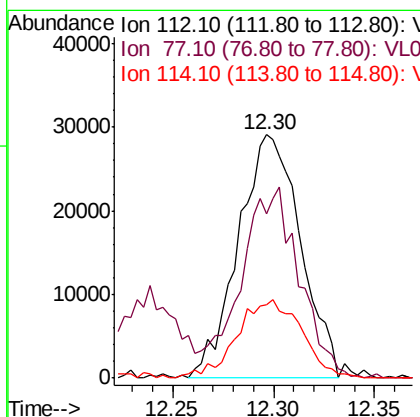
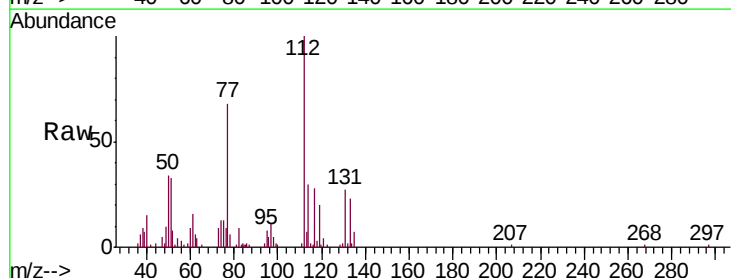
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

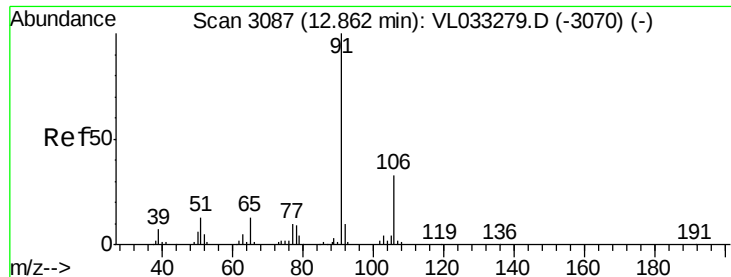
Tgt Ion:131 Resp: 17857
 Ion Ratio Lower Upper
 131 100
 133 178.3 76.2 114.4#
 119 0.0 110.3 165.5#



#57
 Chlorobenzene
 Concen: 0.445 ppbv
 RT: 12.30 min Scan# 2911
 Delta R.T. -0.01 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion:112 Resp: 62455
 Ion Ratio Lower Upper
 112 100
 77 63.6 55.8 83.8
 114 28.1 29.5 36.1#





#58

Ethyl Benzene

Concen: 0.192 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

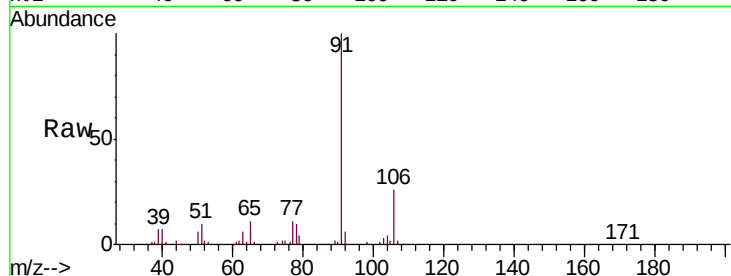
0.4 PPB MDL

Tgt Ion: 91 Resp: 49047

Ion Ratio Lower Upper

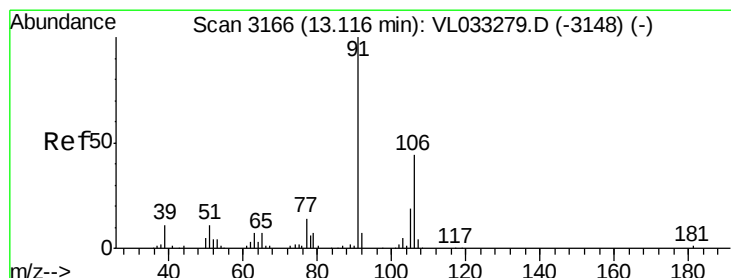
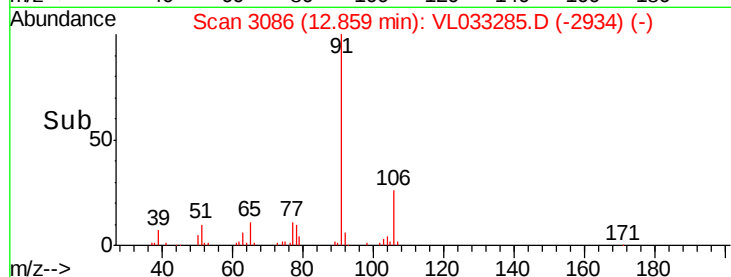
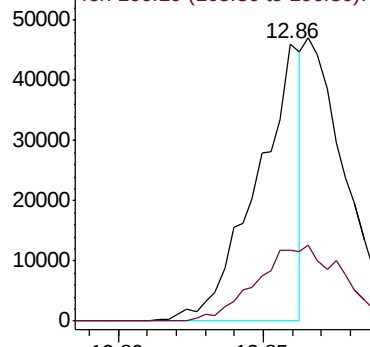
91 100

106 25.8 22.5 33.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.289 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL033285.D

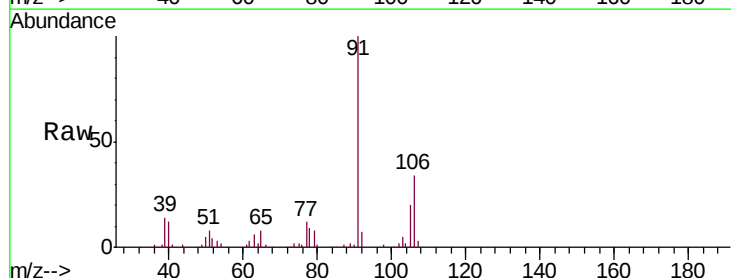
Acq: 12 Mar 2019 15:41

Tgt Ion: 91 Resp: 61760

Ion Ratio Lower Upper

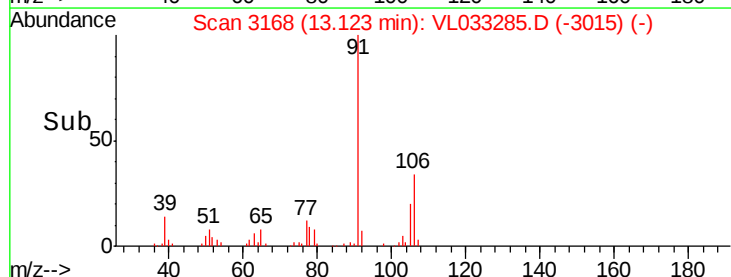
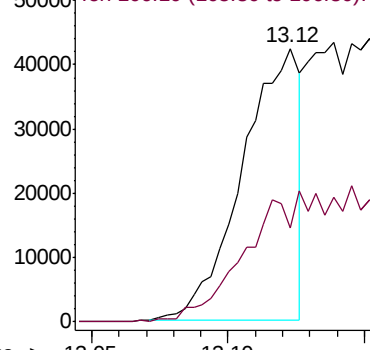
91 100

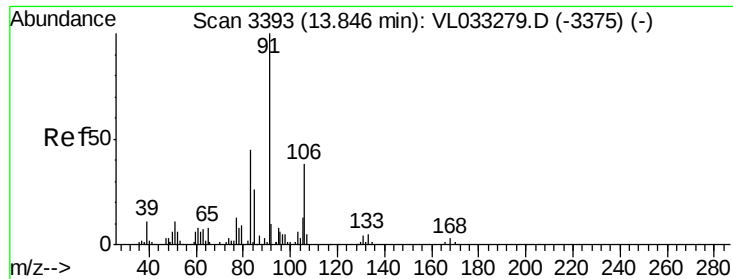
106 0.0 35.5 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

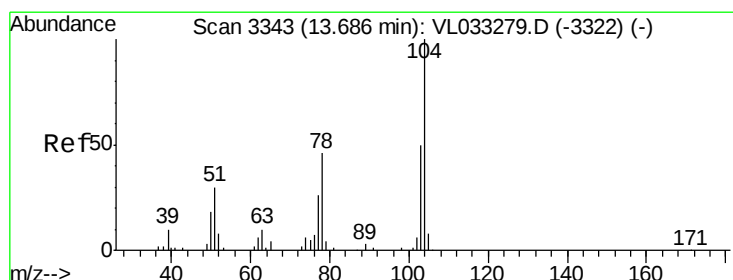
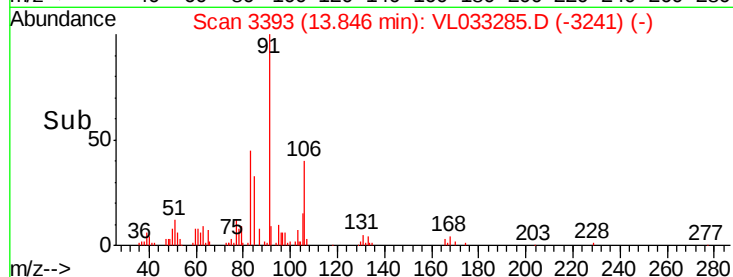
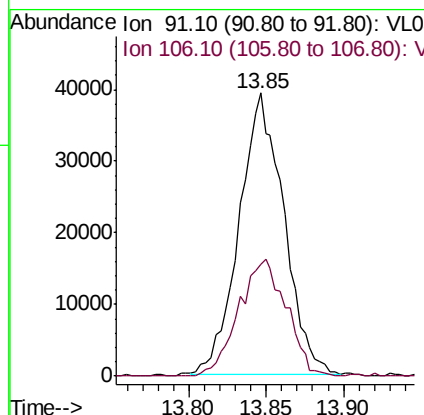
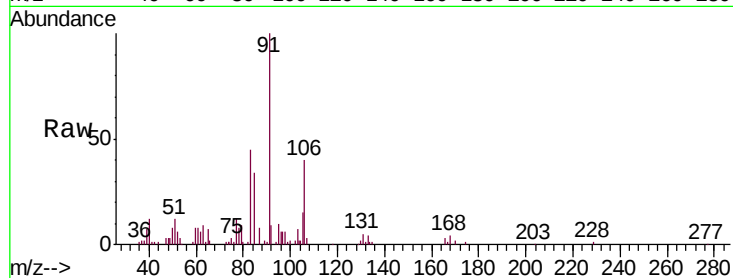




#60
o-Xylene
Concen: 0.381 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

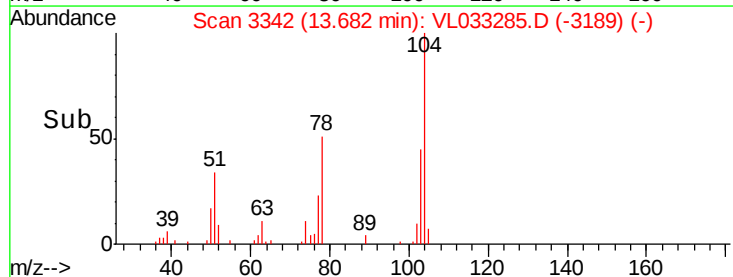
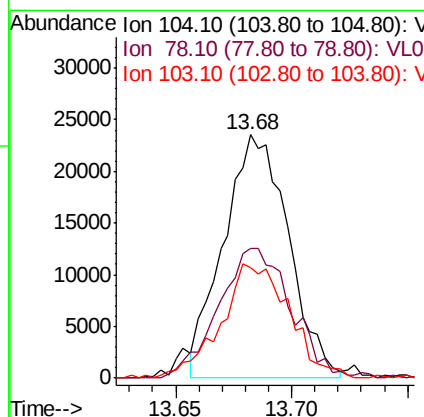
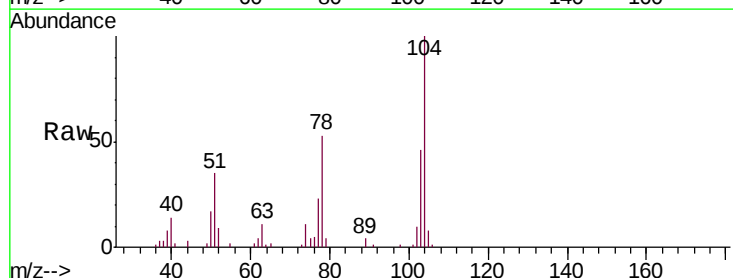
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

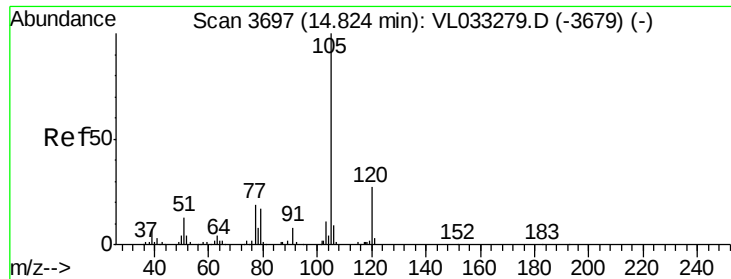
Tgt Ion: 91 Resp: 78269
Ion Ratio Lower Upper
91 100
106 45.0 21.3 63.7



#61
Styrene
Concen: 0.313 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion: 104 Resp: 45801
Ion Ratio Lower Upper
104 100
78 59.9 43.3 64.9
103 50.1 38.0 57.0





#62

Isopropylbenzene

Concen: 0.391 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

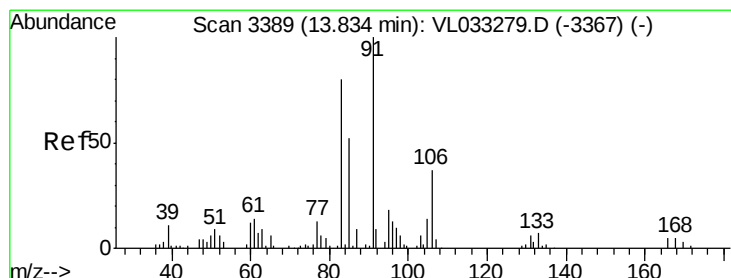
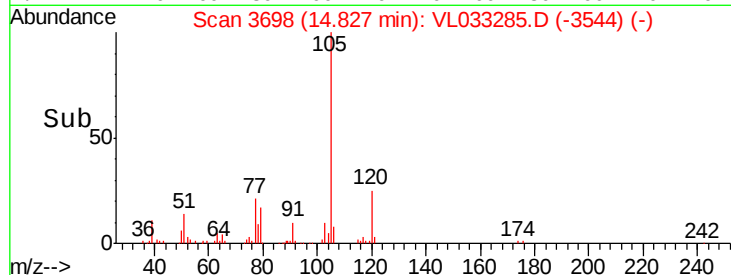
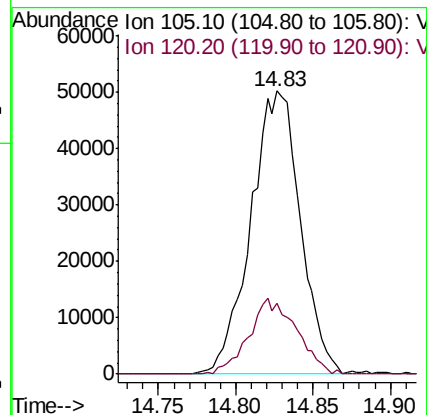
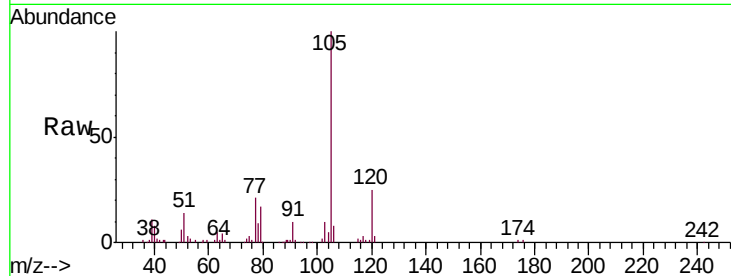
0.4 PPB MDL

Tgt Ion:105 Resp: 112163

Ion Ratio Lower Upper

105 100

120 25.6 20.0 30.0



#63

1,1,2,2-Tetrachloroethane

Concen: 0.436 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

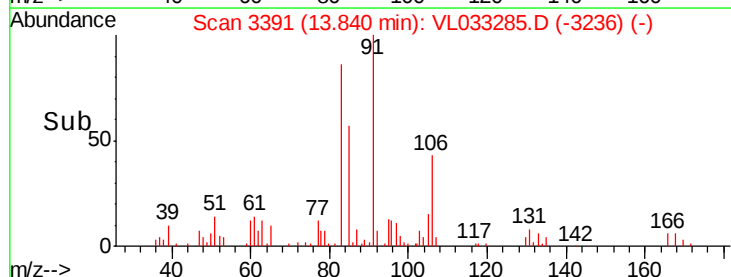
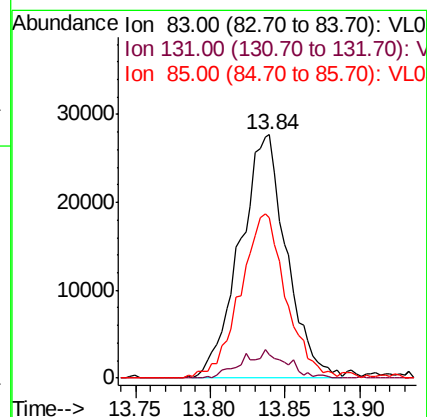
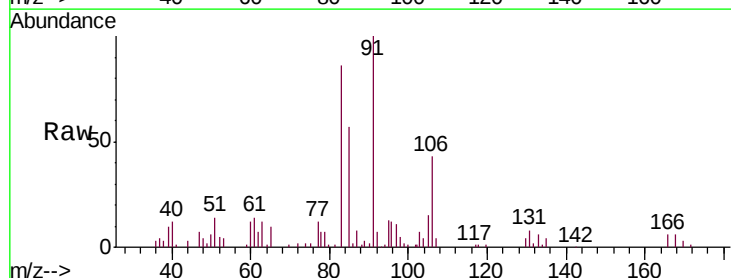
Tgt Ion: 83 Resp: 60143

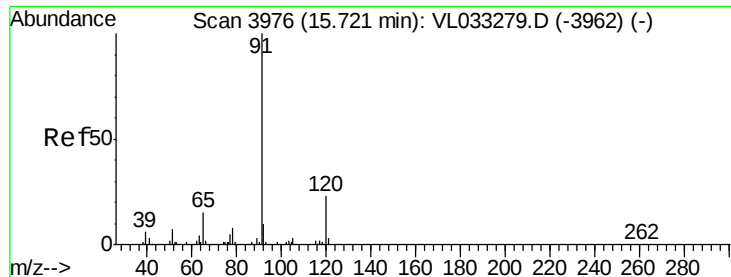
Ion Ratio Lower Upper

83 100

131 10.9 4.5 13.7

85 67.4 32.2 96.6





#64

n-propylbenzene

Concen: 0.264 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

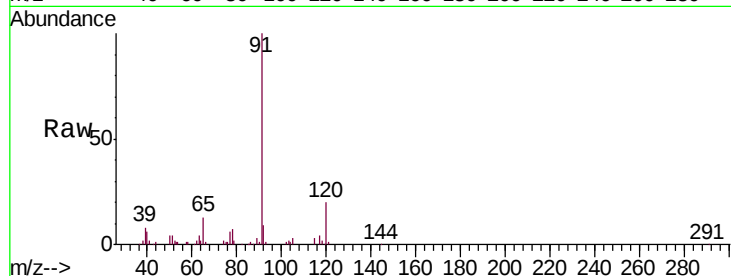
0.4 PPB MDL

Tgt Ion:120 Resp: 18643

Ion Ratio Lower Upper

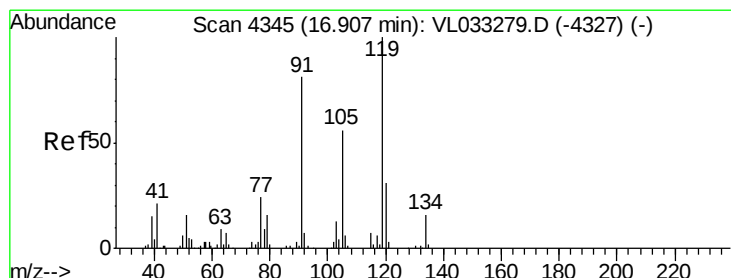
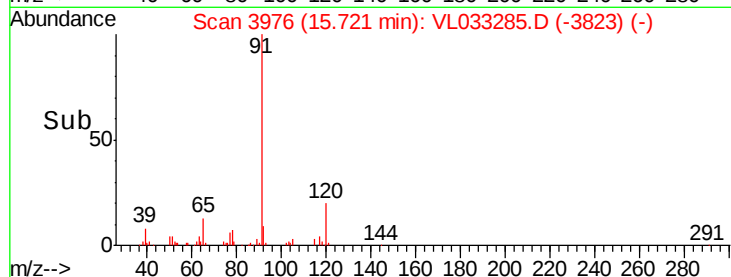
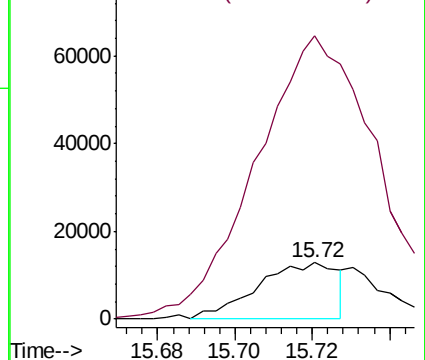
120 100

91 768.8 385.8 578.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.208 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. -0.00 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

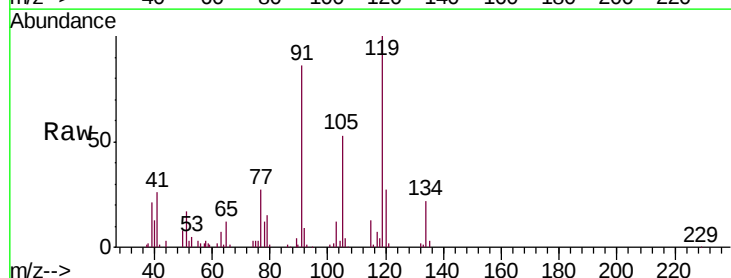
Tgt Ion:119 Resp: 50279

Ion Ratio Lower Upper

119 100

91 159.8 67.3 100.9#

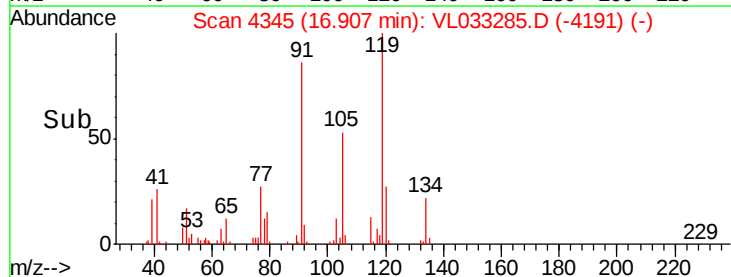
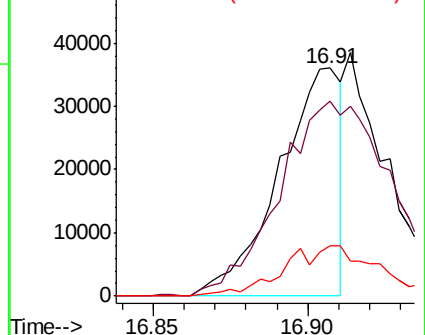
134 33.8 15.4 23.2#

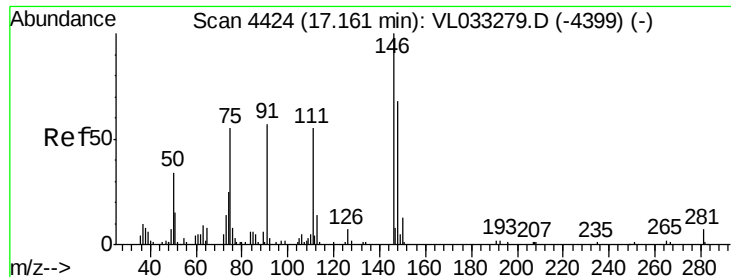


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#66

Benzyl Chloride

Concen: 0.130 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

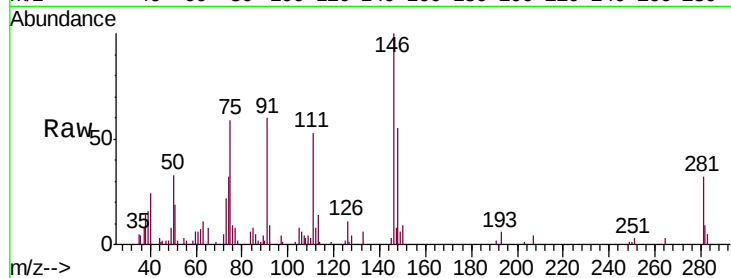
Tgt Ion: 91 Resp: 12151

Ion Ratio Lower Upper

91 100

126 28.4 13.0 19.6#

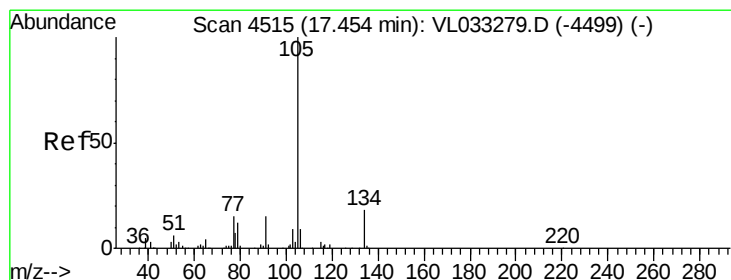
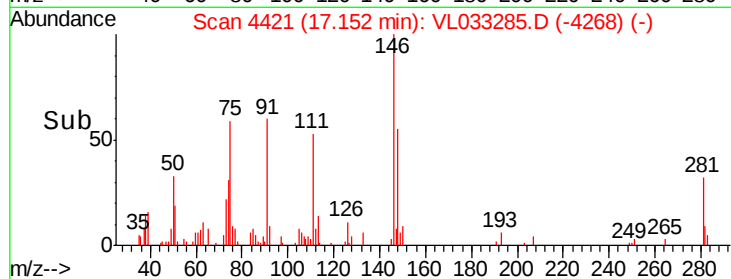
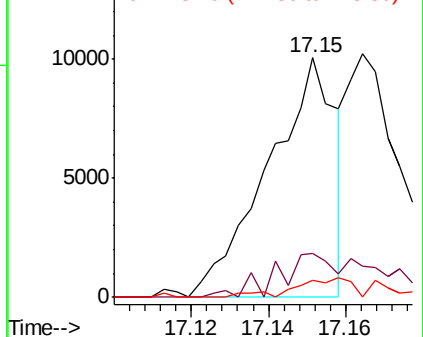
128 10.3 4.3 6.5#



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: 0.223 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.01 min

Lab File: VL033285.D

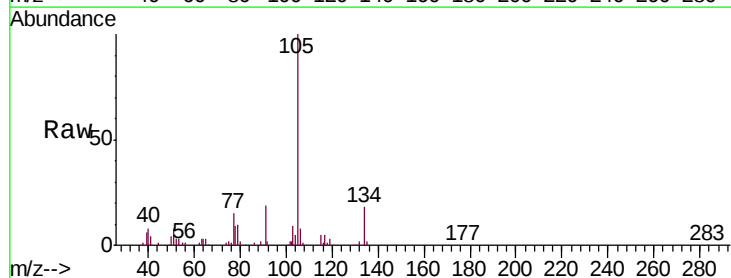
Acq: 12 Mar 2019 15:41

Tgt Ion:105 Resp: 76842

Ion Ratio Lower Upper

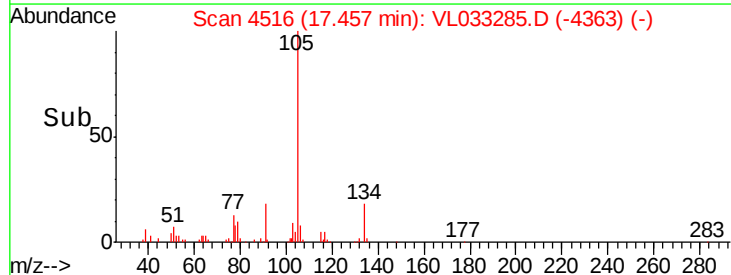
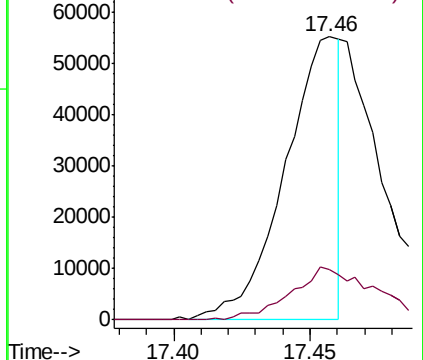
105 100

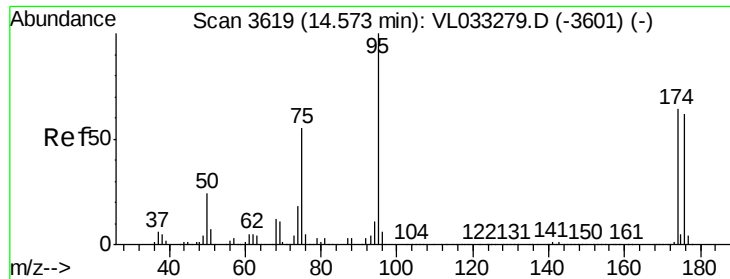
134 28.5 14.2 21.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

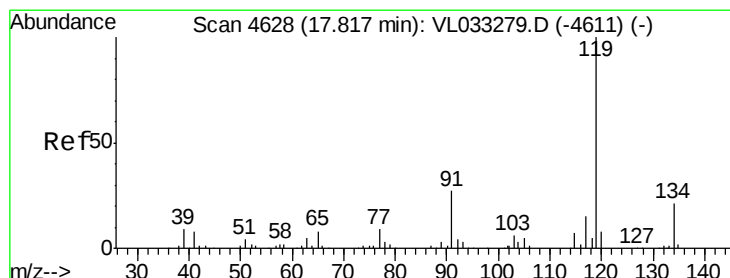
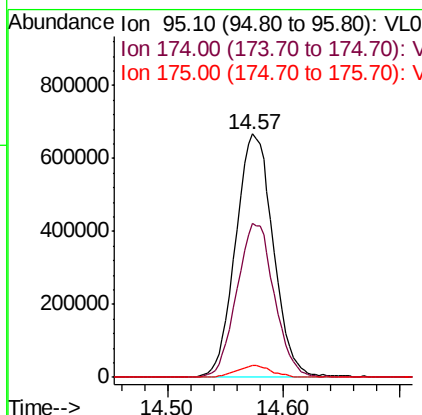
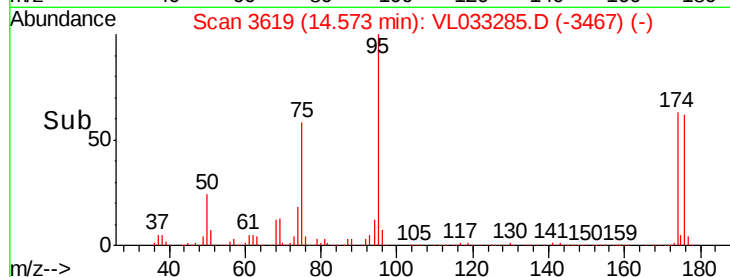
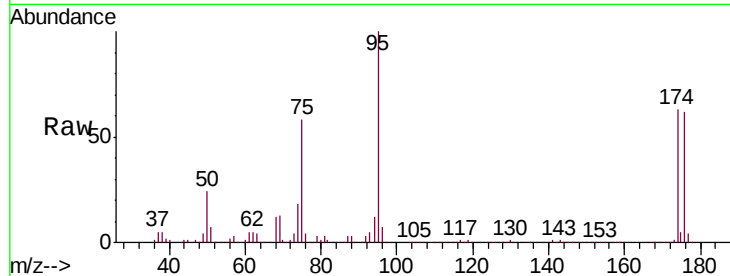




#68
1-Bromo-4-Fluorobenzene
Concen: 10.442 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

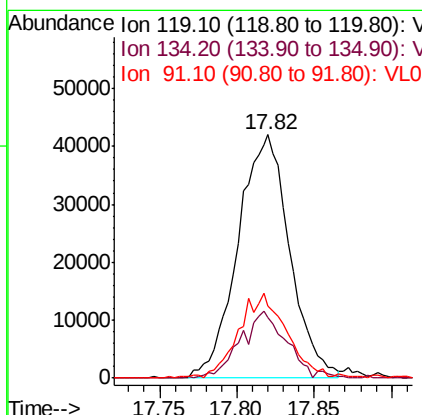
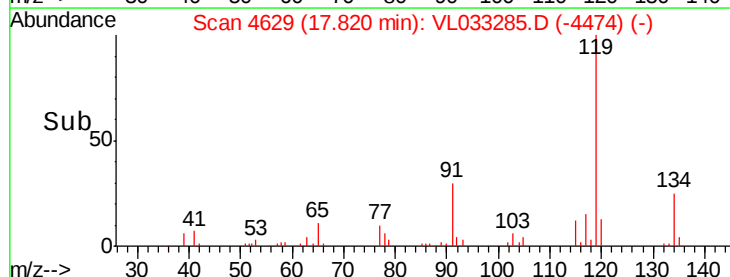
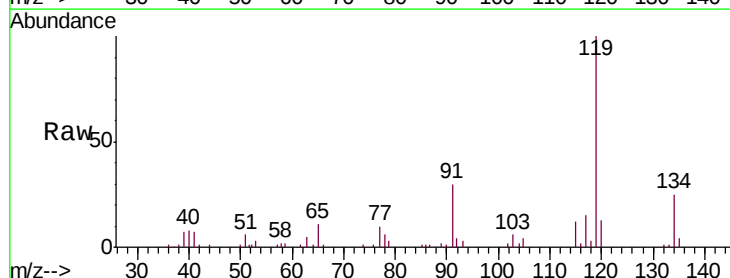
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

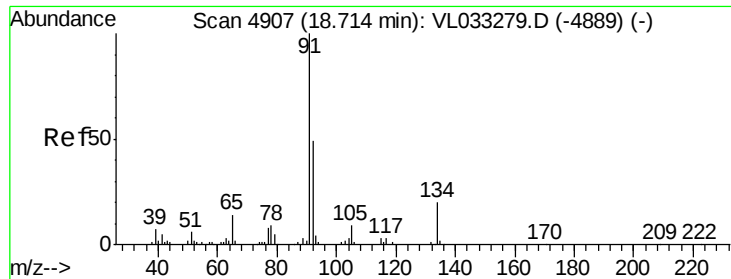
Tgt Ion: 95 Resp: 1501070
Ion Ratio Lower Upper
95 100
174 63.1 51.7 77.5
175 4.6 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.351 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion: 119 Resp: 97678
Ion Ratio Lower Upper
119 100
134 24.8 19.7 29.5
91 32.5 23.5 35.3

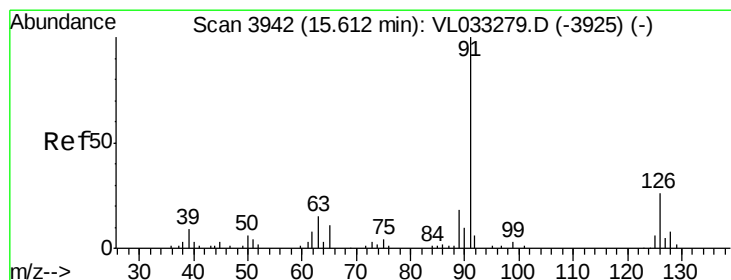
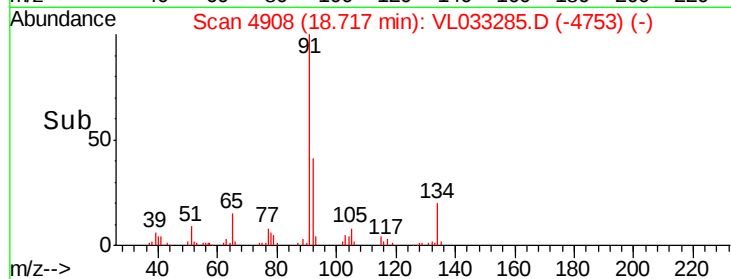
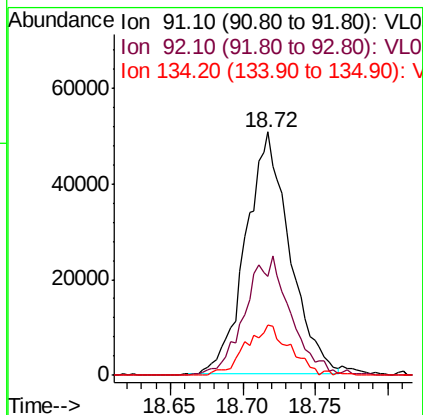
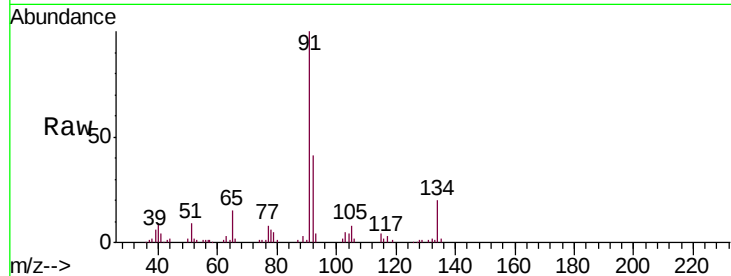




#70
n-Butylbenzene
Concen: 0.356 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

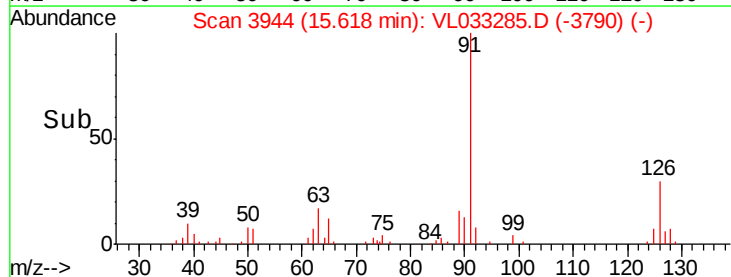
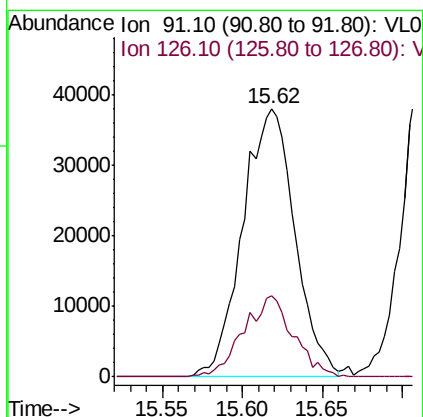
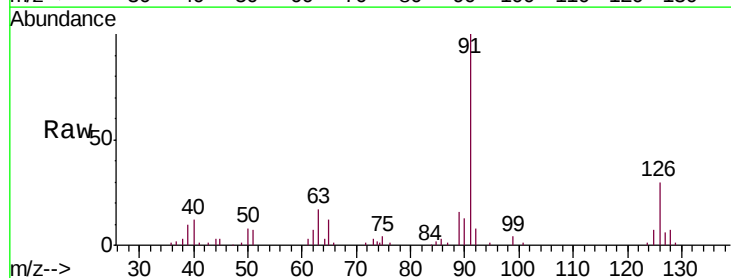
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

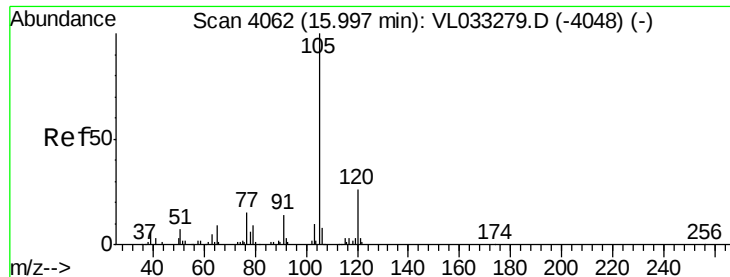
Tgt Ion: 91 Resp: 106204
Ion Ratio Lower Upper
91 100
92 51.9 42.4 63.6
134 21.4 17.1 25.7



#71
2-Chlorotoluene
Concen: 0.393 ppbv
RT: 15.62 min Scan# 3944
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion: 91 Resp: 84996
Ion Ratio Lower Upper
91 100
126 28.9 11.7 46.7





#72

4-Ethyltoluene

Concen: 0.227 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

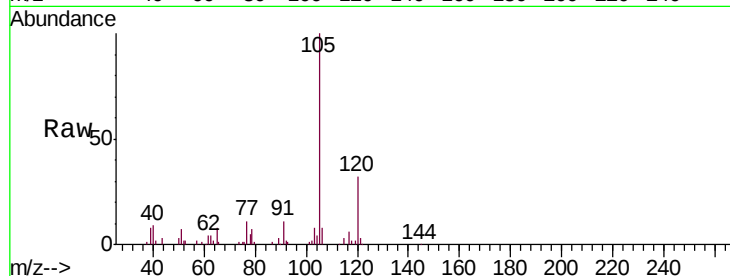
Instrument :

MSVOA_L

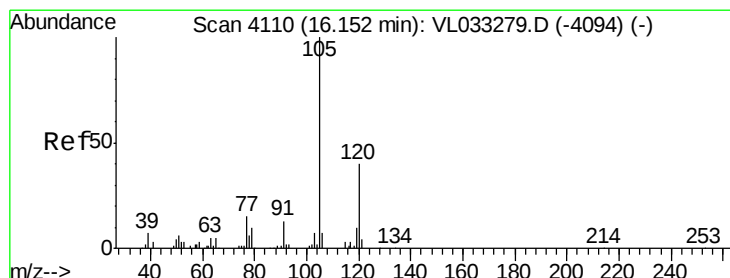
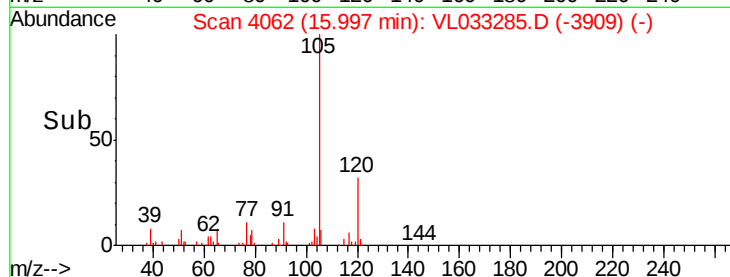
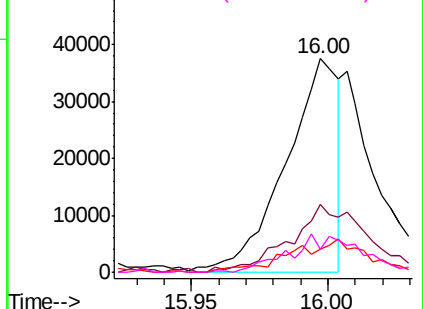
ClientSampleId :

0.4 PPB MDL

Tgt Ion:	105	Resp:	50334
Ion	Ratio	Lower	Upper
105	100		
120	47.0	22.9	34.3#
91	0.0	10.2	15.2#
77	24.7	11.2	16.8#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.350 ppbv

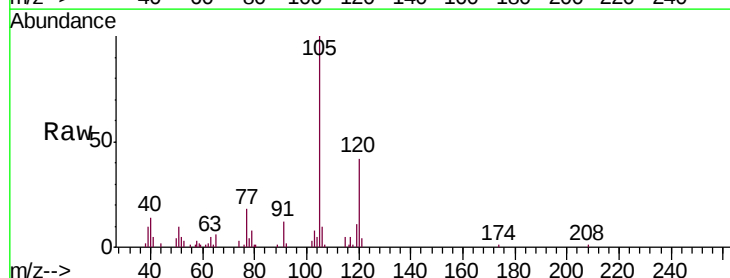
RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

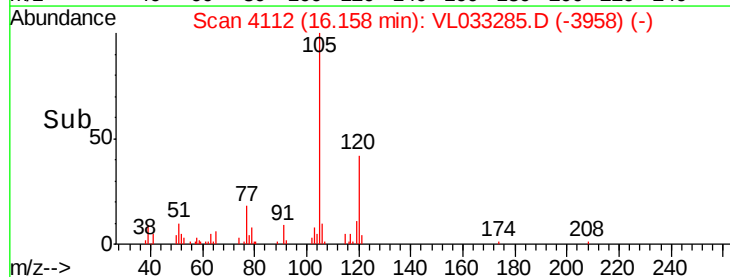
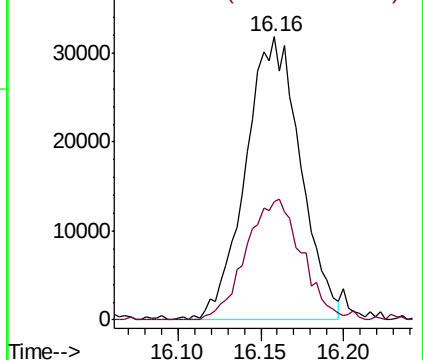
Lab File: VL033285.D

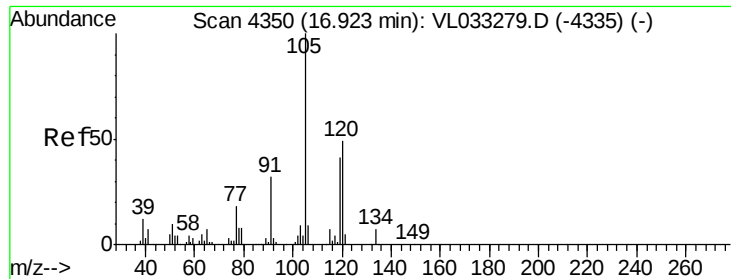
Acq: 12 Mar 2019 15:41

Tgt Ion:	105	Resp:	73244
Ion	Ratio	Lower	Upper
105	100		
120	41.8	35.1	52.7



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: 0.390 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

Tgt Ion:105 Resp: 83074

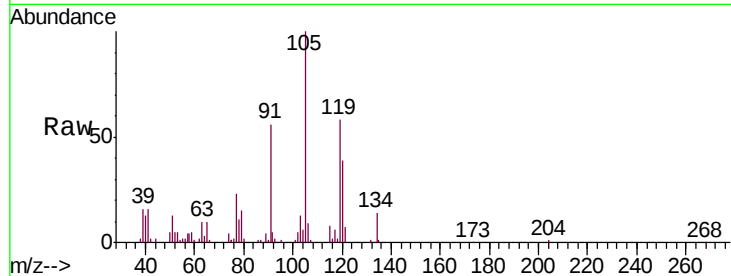
Ion Ratio Lower Upper

105 100

120 37.8 36.1 54.1

91 59.9 38.6 58.0#

77 21.6 18.2 27.4

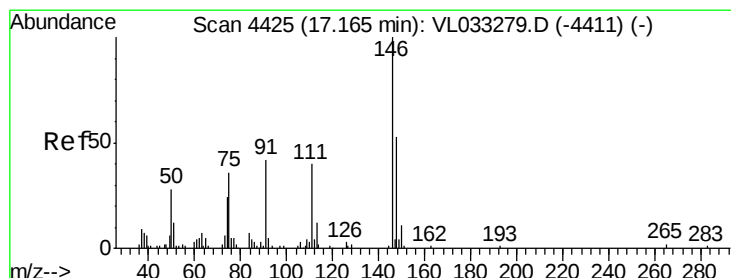
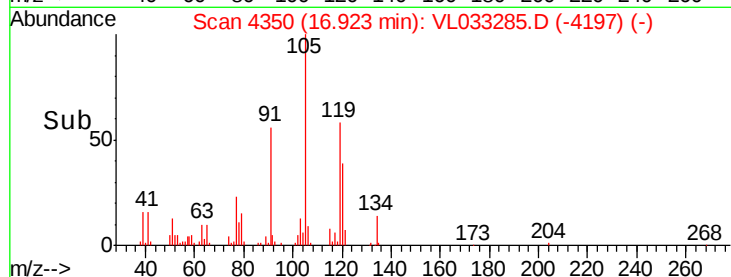
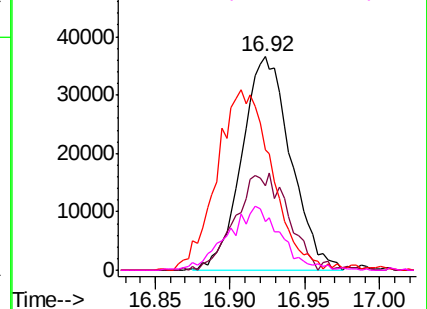


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.232 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL033285.D

Acq: 12 Mar 2019 15:41

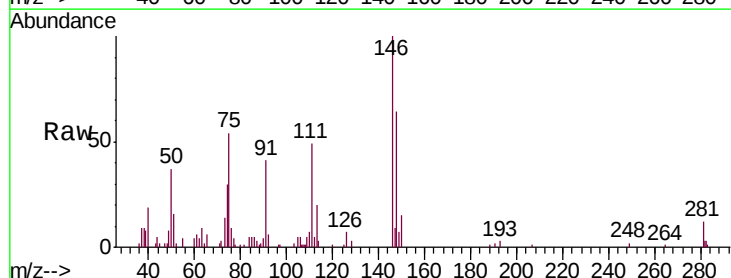
Tgt Ion:146 Resp: 29622

Ion Ratio Lower Upper

146 100

111 0.0 22.8 68.4#

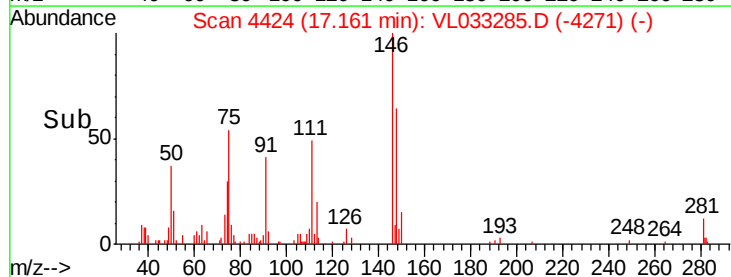
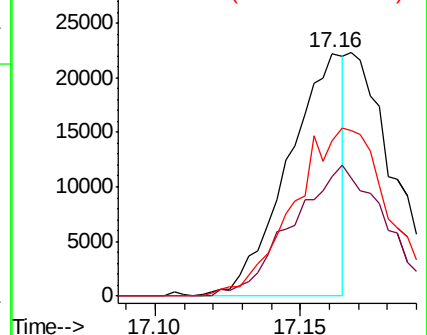
148 0.0 31.8 95.3#

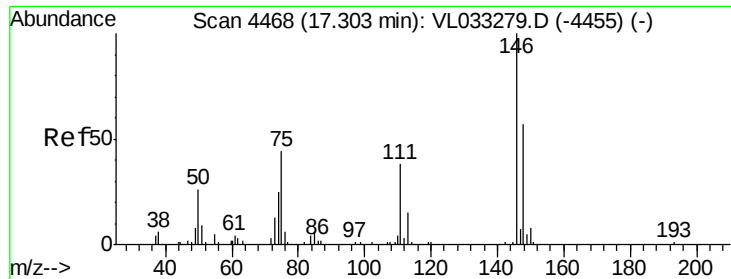


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

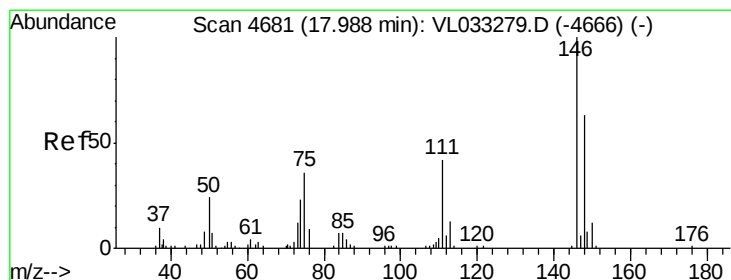
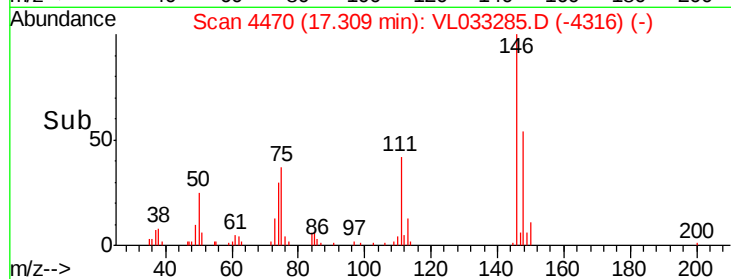
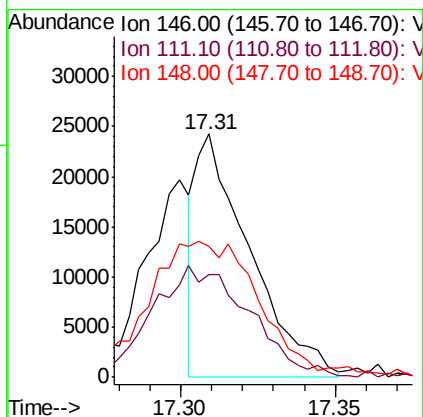
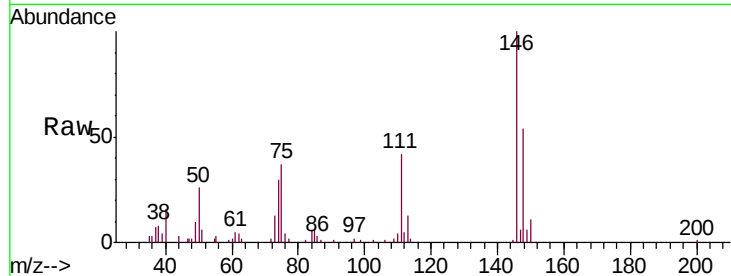




#76
 1,4-Dichlorobenzene
 Concen: 0.233 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

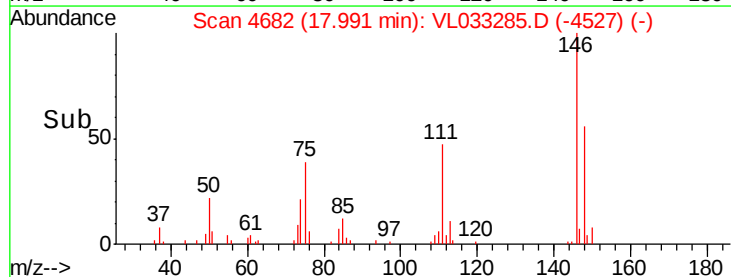
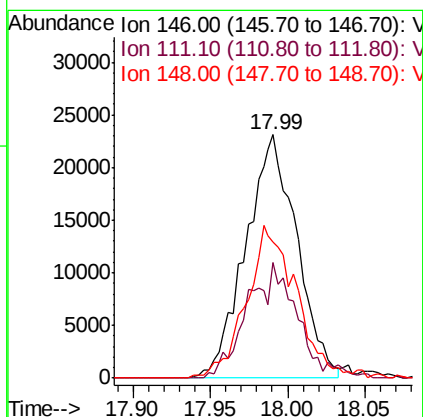
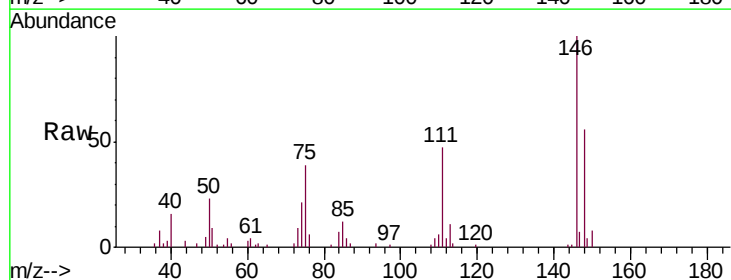
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

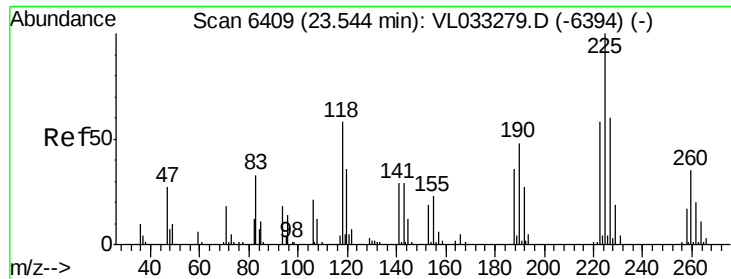
Tgt Ion:146 Resp: 29386
 Ion Ratio Lower Upper
 146 100
 111 84.0 22.1 66.1#
 148 119.8 31.8 95.3#



#77
 1,2-Dichlorobenzene
 Concen: 0.417 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033285.D
 Acq: 12 Mar 2019 15:41

Tgt Ion:146 Resp: 53091
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.5 70.5
 148 61.4 31.7 95.1

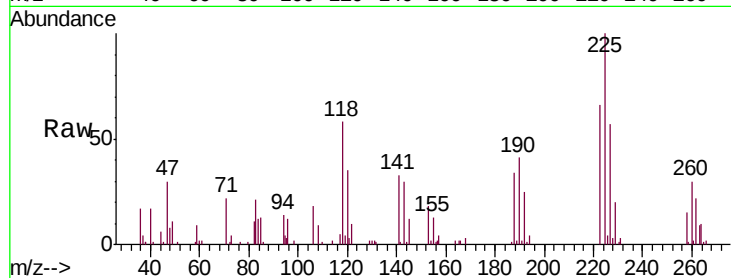




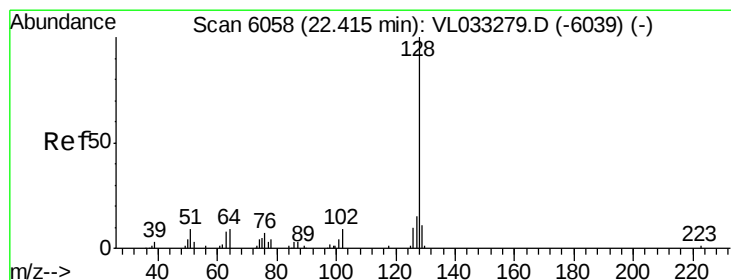
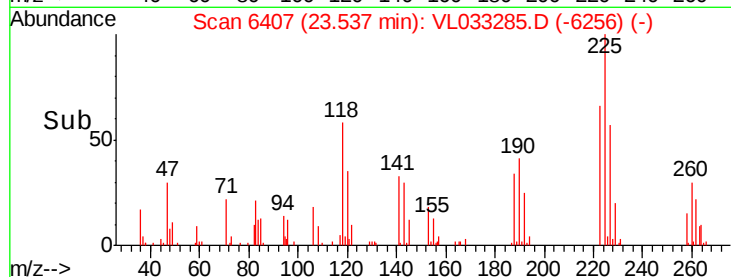
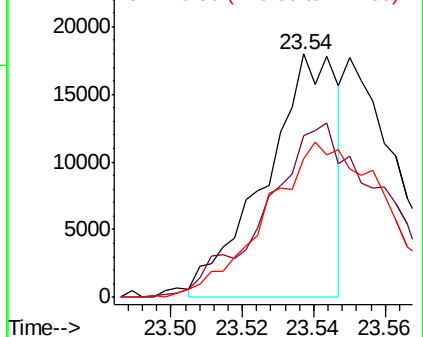
#78
Hexachloro-1,3-Butadiene
Concen: 0.236 ppbv
RT: 23.54 min Scan# 6407
Delta R.T. -0.01 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:225 Resp: 25027
Ion Ratio Lower Upper
225 100
223 116.9 50.3 75.5#
227 109.7 51.1 76.7#

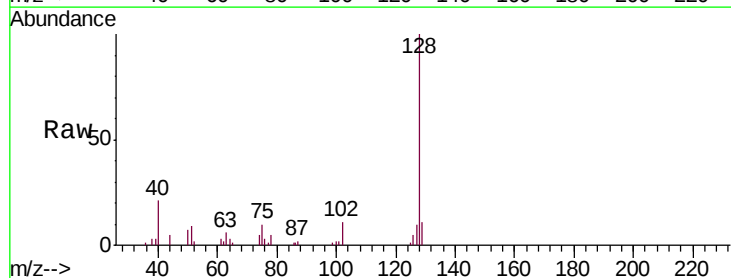


Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V

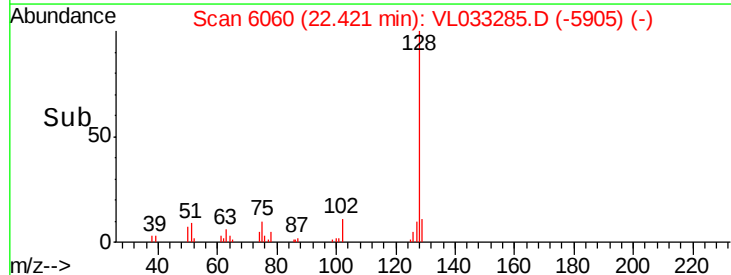
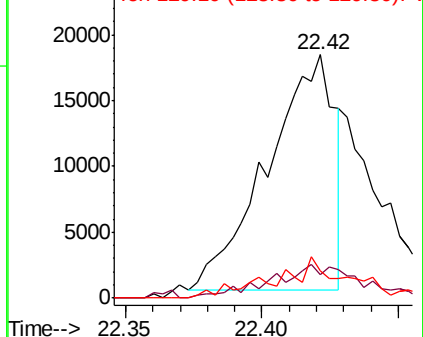


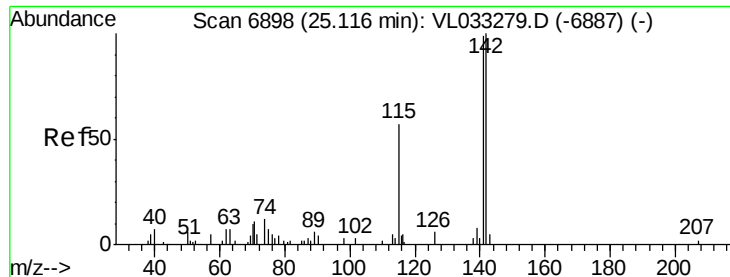
#79
Naphthalene
Concen: 0.132 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion:128 Resp: 30470
Ion Ratio Lower Upper
128 100
127 10.2 10.5 15.7#
129 11.4 8.4 12.6



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

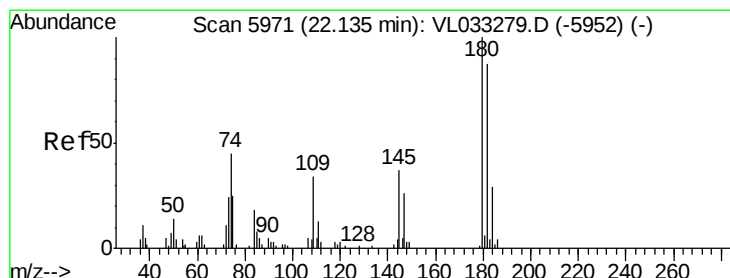
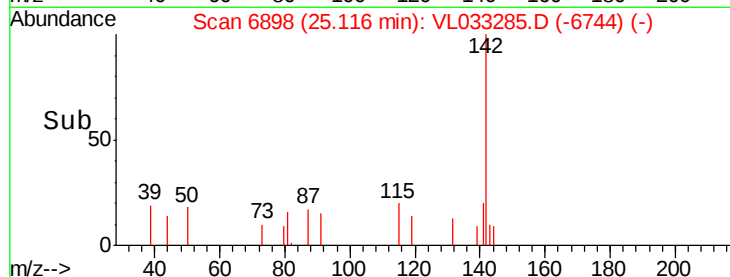
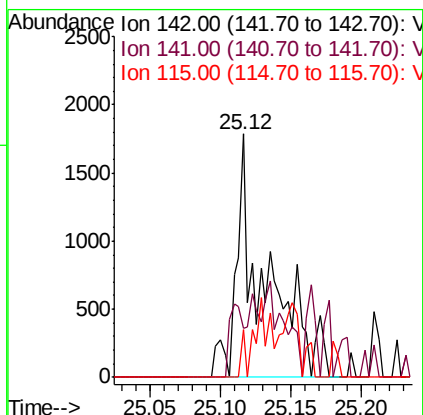
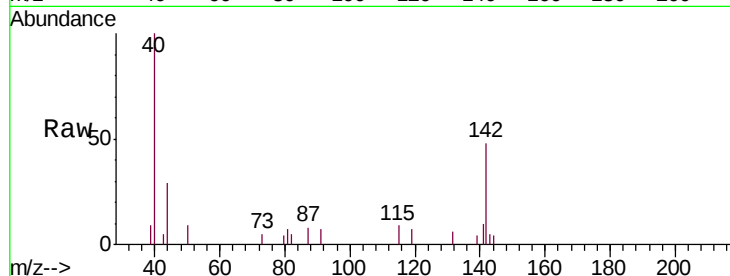




#80
Naphthalene, 2-methyl-
Concen: 0.041 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:142 Resp: 2579
Ion Ratio Lower Upper
142 100
141 54.2 68.0 102.0#
115 40.7 33.8 50.6



#81
1,2,4-Trichlorobenzene
Concen: 0.147 ppbv
RT: 22.14 min Scan# 5972
Delta R.T. -0.00 min
Lab File: VL033285.D
Acq: 12 Mar 2019 15:41

Tgt Ion:180 Resp: 17808
Ion Ratio Lower Upper
180 100
182 186.1 76.6 114.8#
184 61.8 24.2 36.4#

