

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034899.D
 Acq On : 16 Mar 2020 20:46
 Operator : SY/AP
 Sample : L1924-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Quant Time: Mar 17 04:27:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

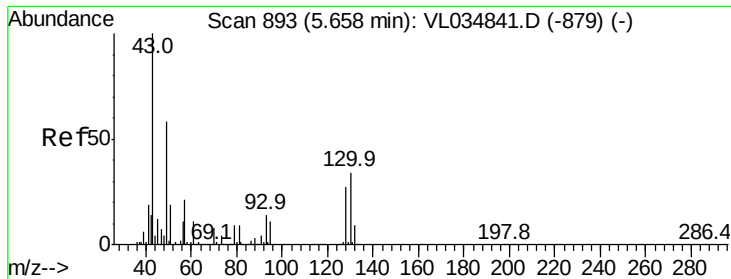
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	929655	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1951874	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1884439	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1511373	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	80721	0.634	ppbv 92
3) Chlorodifluoromethane	2.92	51	107792	1.038	ppbv # 59
4) Chloromethane	3.10	50	10238	0.174	ppbv # 78
5) Vinyl Chloride	3.22	62	7031	0.125	ppbv 93
7) Chloroethane	3.51	64	927	0.045	ppbv # 44
8) Dichlorotetrafluoroethane	3.18	85	141670	1.072	ppbv # 18
9) Propene	2.98	41	38975	0.786	ppbv # 69
10) Heptane	8.12	43	4056	0.033	ppbv # 28
11) Trichlorofluoromethane	3.92	101	34281	0.253	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	8629177	91.036	ppbv 91
13) Ethanol	3.58	45	569049	37.750	ppbv 93
15) Acetone	3.83	43	1206052	10.009	ppbv 100
16) 1,3-Butadiene	3.32	39	25575	0.469	ppbv # 17
17) tert-Butyl alcohol	4.26	59	82829	0.714	ppbv # 72
18) 1,1-Dichloroethene	4.26	96	972659	23.171	ppbv 97
19) Isopropyl Alcohol	3.95	45	291919	3.836	ppbv # 45
20) Methylene Chloride	4.31	84	189941	4.986	ppbv 98
22) trans-1,2-Dichloroethene	4.87	96	68663	1.612	ppbv 96
23) Vinyl Acetate	5.05	43	18856	0.106	ppbv # 1
24) 1,1-Dichloroethane	4.99	63	170028	1.425	ppbv 97
25) Ethyl Acetate	5.67	43	95647	0.446	ppbv # 77
26) Hexane	5.68	57	120076	1.299	ppbv # 42
27) Carbon Disulfide	4.52	76	3251	0.031	ppbv # 62
29) Chloroform	5.74	83	106521	0.755	ppbv 93
31) cis-1,2-Dichloroethene	5.54	61	6003963	63.512	ppbv # 87
32) 1,1,1-Trichloroethane	6.51	97	711745	5.179	ppbv 97
34) 2-Butanone	5.24	43	54743	0.422	ppbv 98
35) Carbon Tetrachloride	7.02	117	4447	0.037	ppbv # 47
36) Benzene	6.89	78	34229	0.197	ppbv 95
37) 1,2-Dichloroethane	6.50	62	52925	0.540	ppbv # 1
38) Trichloroethene	7.85	130	8462529	128.073	ppbv 95
39) 1,2-Dichloropropane	7.84	63	23287	0.338	ppbv # 1
40) 1,4-Dioxane	7.84	88	4039	0.155	ppbv # 72
41) Tetrahydrofuran	6.06	42	3148	0.045	ppbv # 24
42) Bromodichloromethane	7.85	83	147397	1.102	ppbv 87
44) 2,2,4-Trimethylpentane	7.87	57	18999	0.065	ppbv # 7
52) Tetrachloroethene	11.24	164	448152	6.511	ppbv 97
53) Toluene	9.82	91	67650	0.337	ppbv 99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

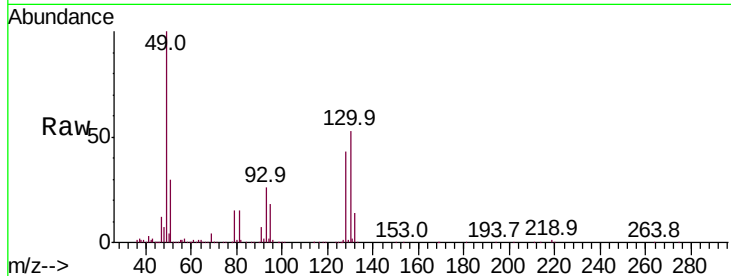
Tot Ion: 49 Resp: 929655

Ion Ratio Lower Upper

49 100

128 45.1 23.4 70.3

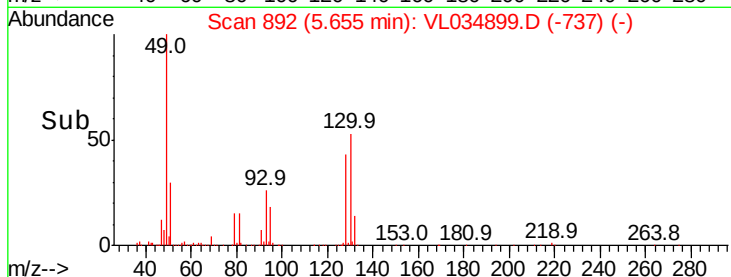
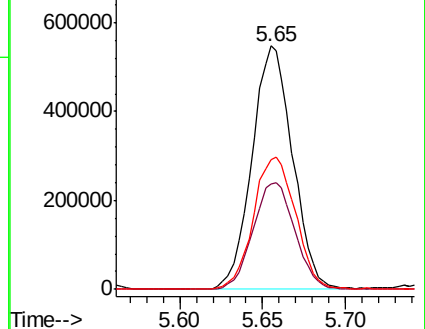
130 56.7 30.0 90.0



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: 0.634 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034899.D

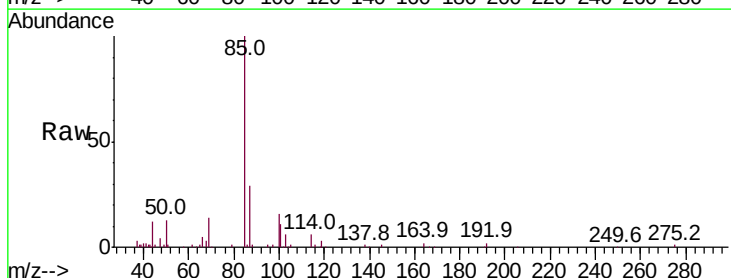
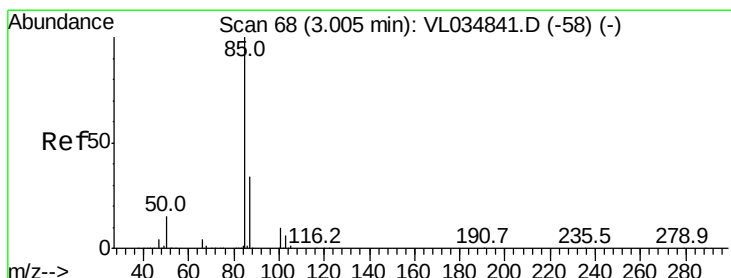
Acq: 16 Mar 2020 20:46

Tgt Ion: 85 Resp: 80721

Ion Ratio Lower Upper

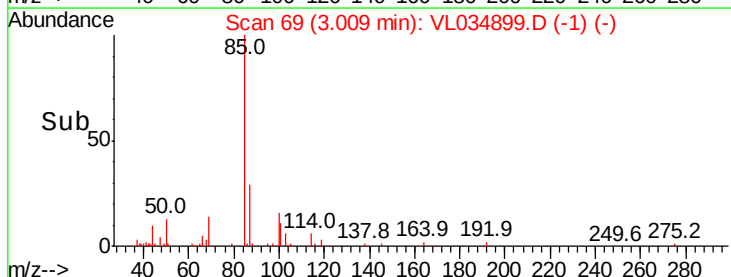
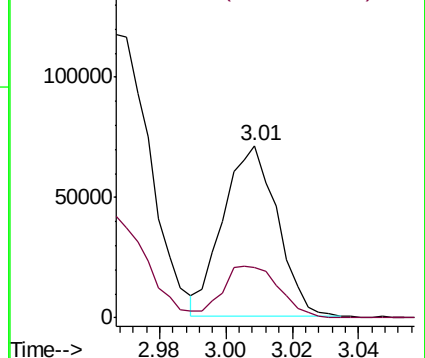
85 100

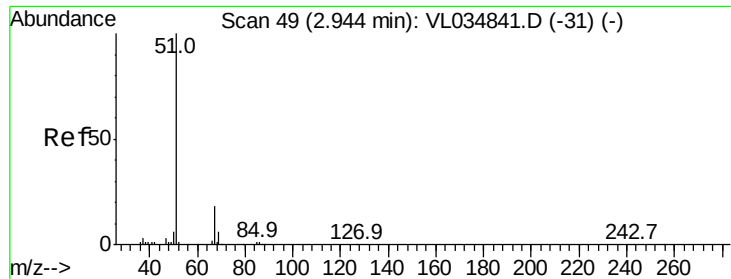
87 28.8 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.038 ppbv

RT: 2.92 min Scan# 42

Delta R.T. -0.02 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

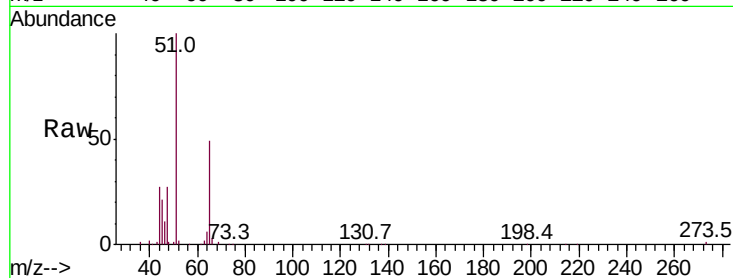
SV-01

Tot Ion: 51 Resp: 107792

Ion Ratio Lower Upper

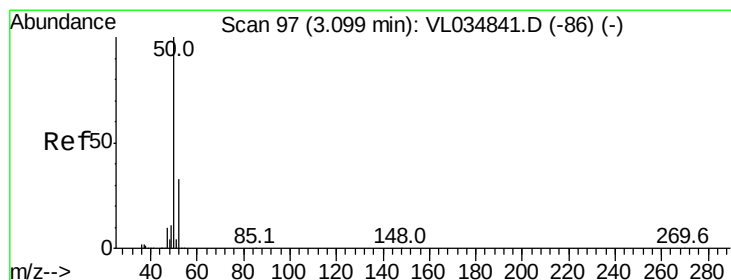
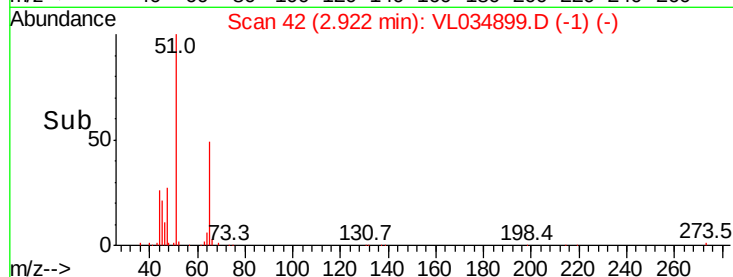
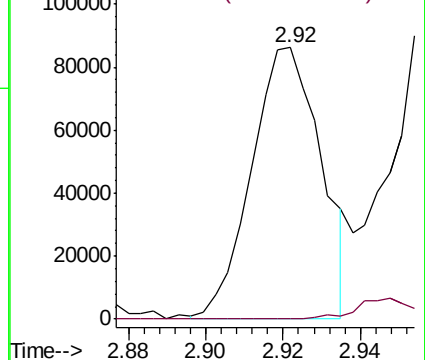
51 100

67 0.0 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.174 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034899.D

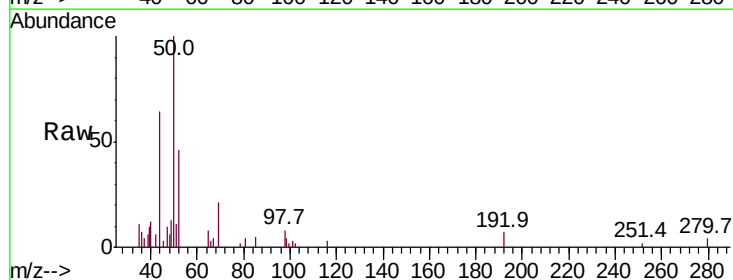
Acq: 16 Mar 2020 20:46

Tgt Ion: 50 Resp: 10238

Ion Ratio Lower Upper

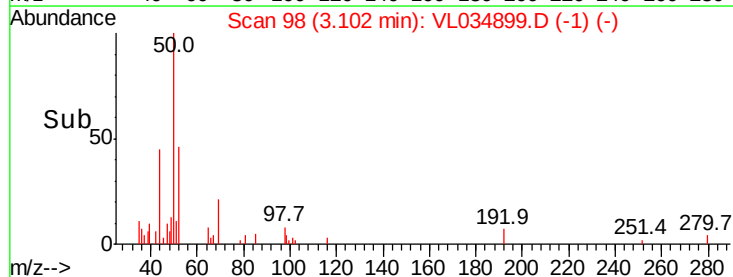
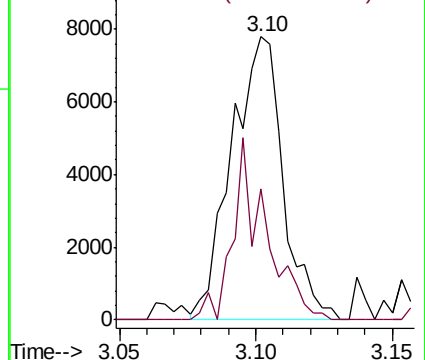
50 100

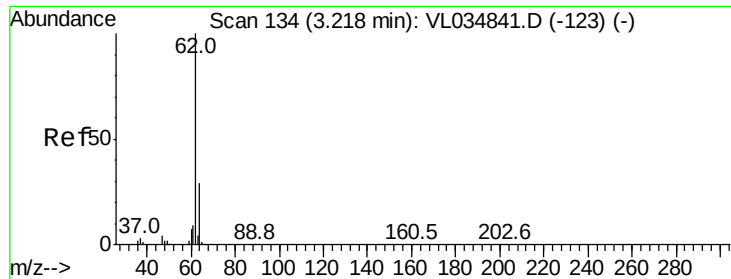
52 46.2 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.125 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

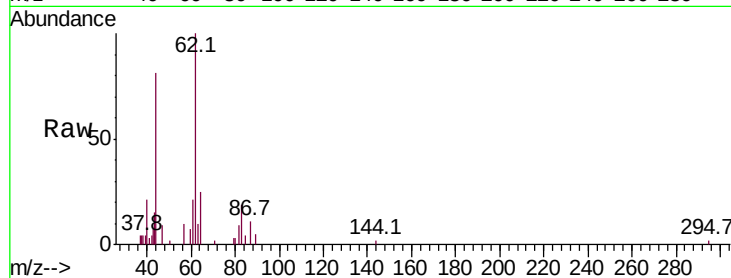
SV-01

Tot Ion: 62 Resp: 7031

Ion Ratio Lower Upper

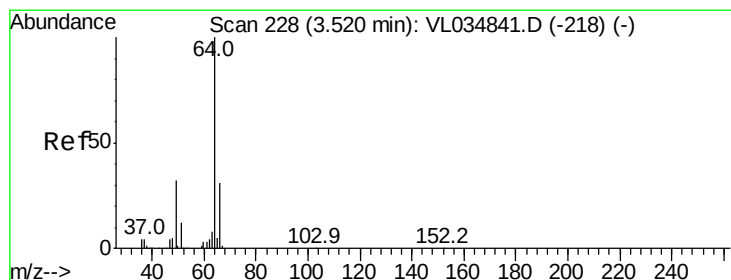
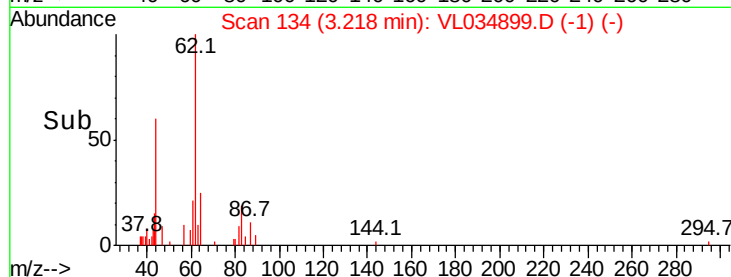
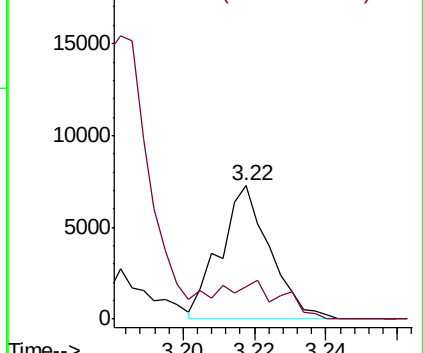
62 100

64 24.8 23.0 34.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 0.045 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

Lab File: VL034899.D

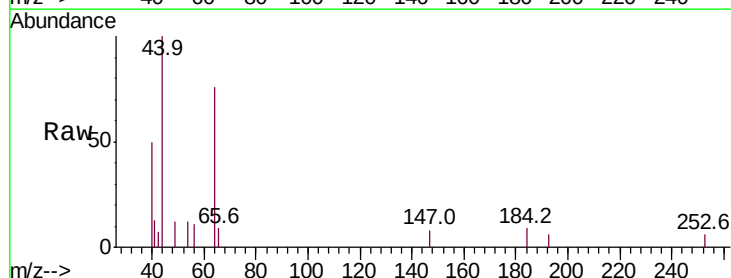
Acq: 16 Mar 2020 20:46

Tgt Ion: 64 Resp: 927

Ion Ratio Lower Upper

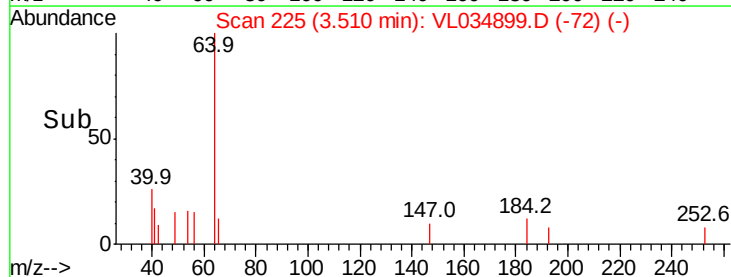
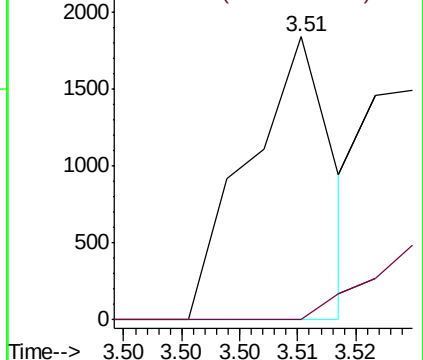
64 100

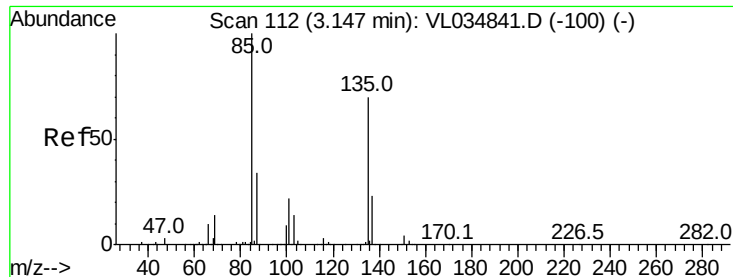
66 0.0 24.8 37.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 1.072 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.04 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

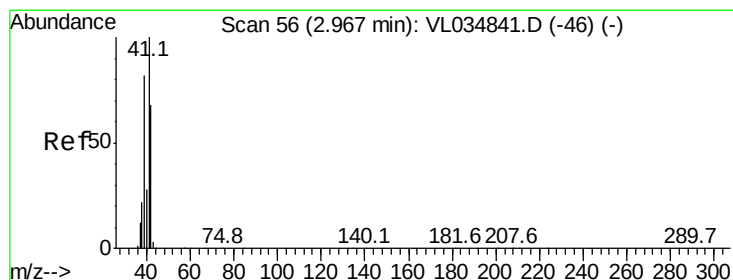
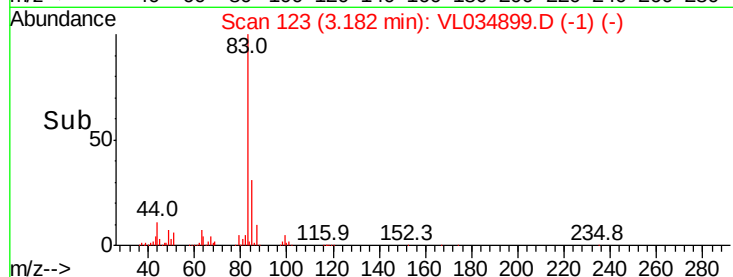
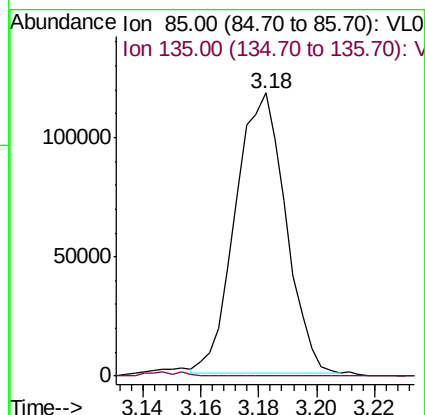
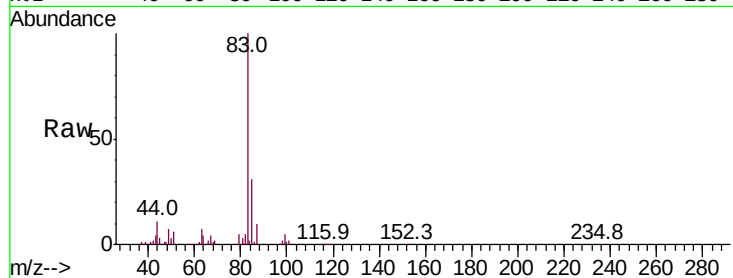
SV-01

Tot Ion: 85 Resp: 141670

Ion Ratio Lower Upper

85 100

135 1.3 54.3 81.5#



#9

Propene

Concen: 0.786 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.02 min

Lab File: VL034899.D

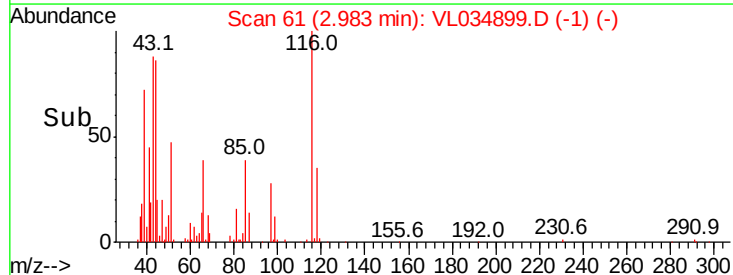
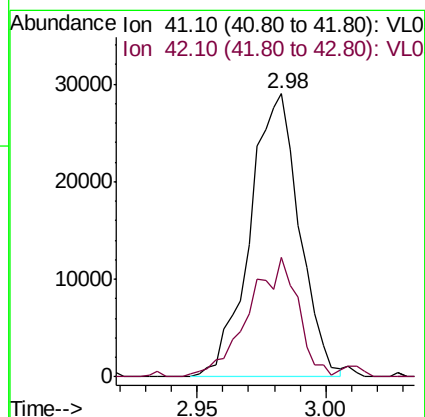
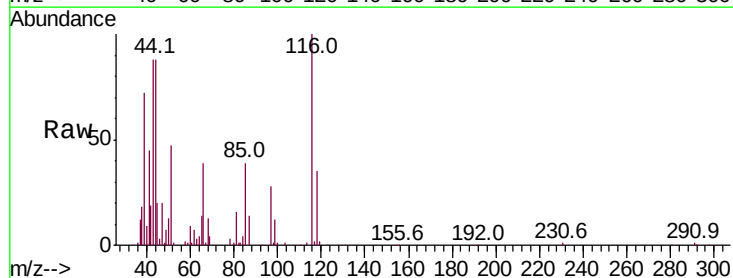
Acq: 16 Mar 2020 20:46

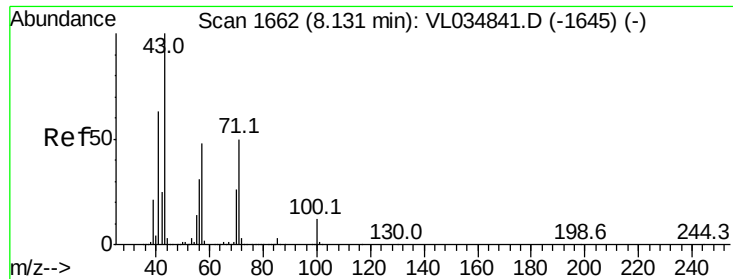
Tgt Ion: 41 Resp: 38975

Ion Ratio Lower Upper

41 100

42 44.0 55.2 82.8#

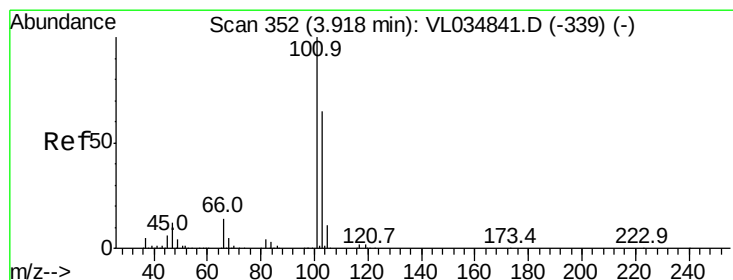
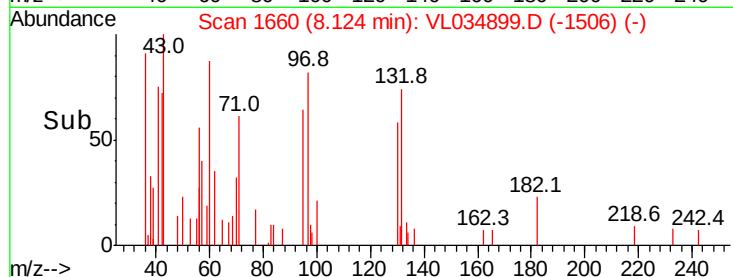
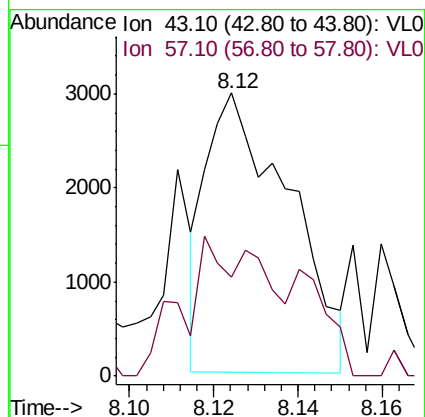
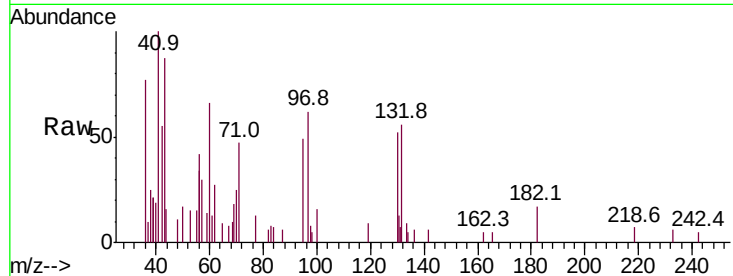




#10
 Heptane
 Concen: 0.033 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T. -0.01 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

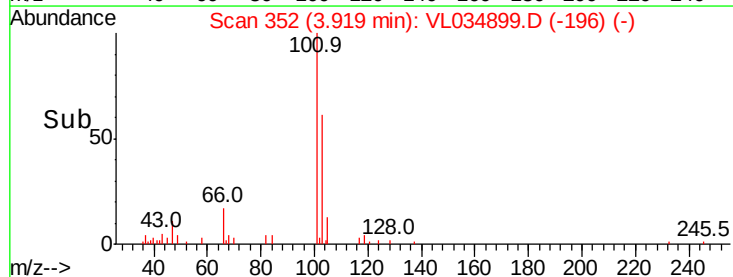
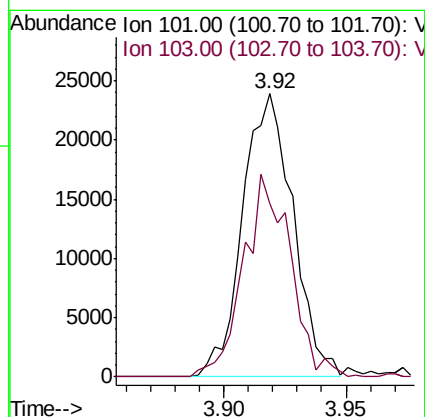
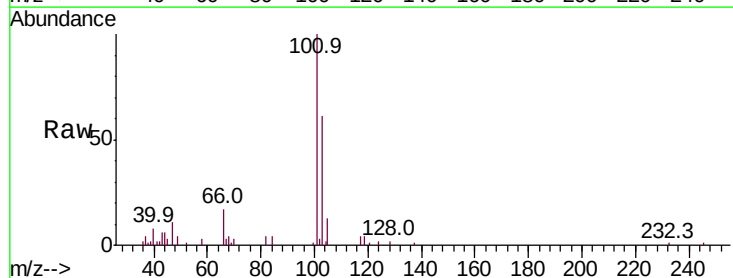
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

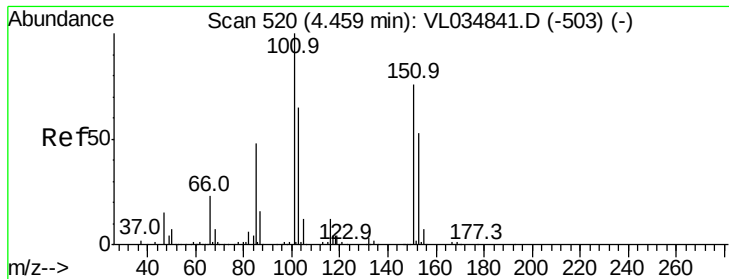
Tot Ion: 43 Resp: 4056
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5#



#11
 Trichlorofluoromethane
 Concen: 0.253 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Tgt Ion:101 Resp: 34281
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.8 77.8

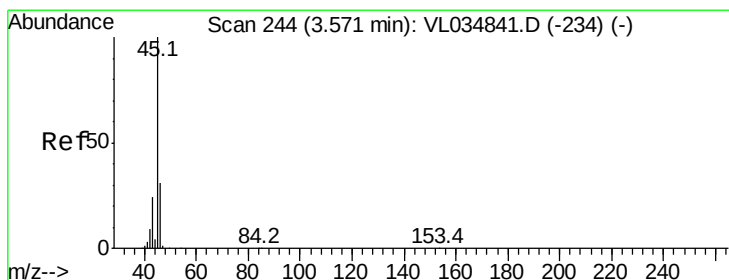
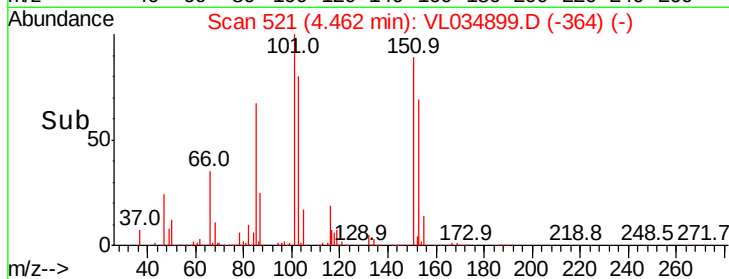
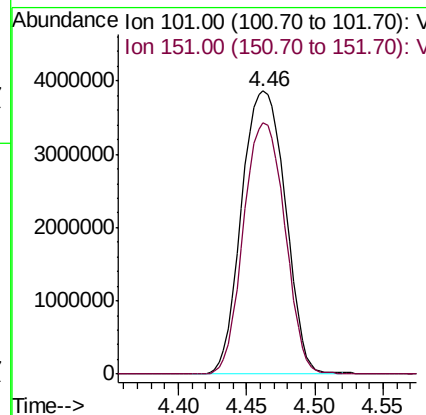
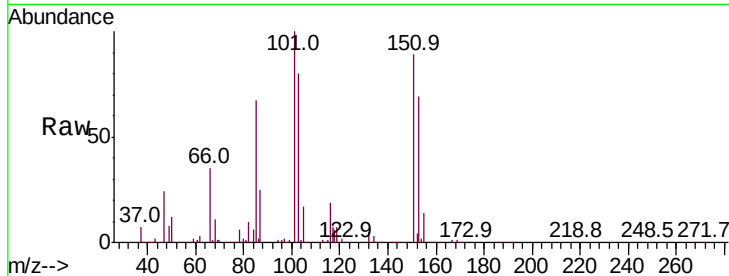




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 91.036 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

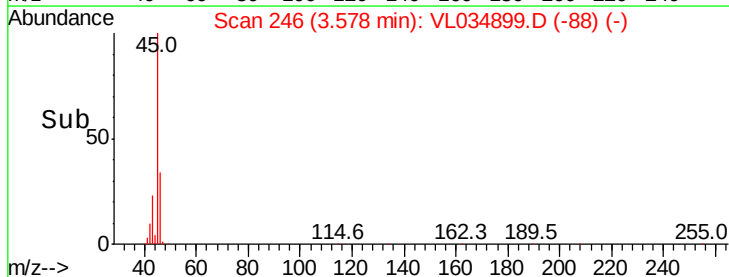
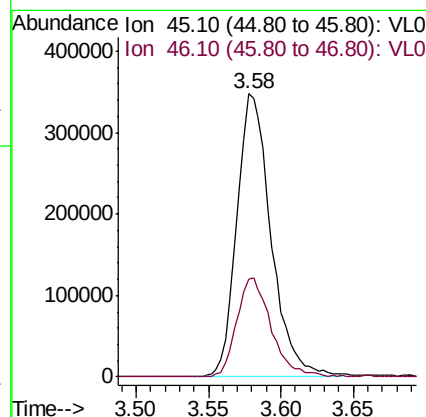
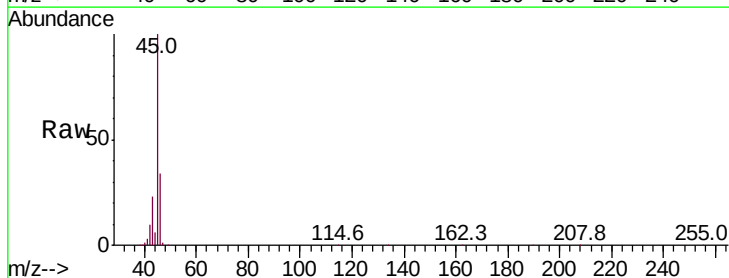
Instrument :
 MSVOA_L
 ClientSampled :
 SV-01

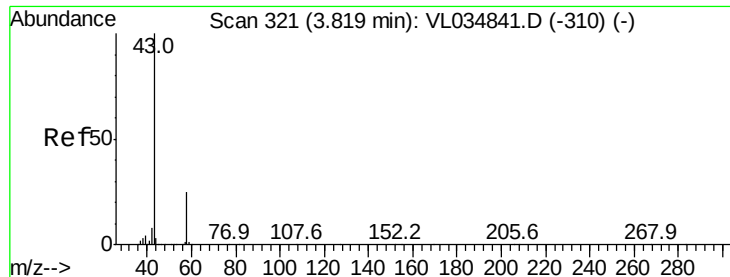
Tot Ion:101 Resp: 8629177
 Ion Ratio Lower Upper
 101 100
 151 84.0 60.8 91.2



#13
 Ethanol
 Concen: 37.750 ppbv
 RT: 3.58 min Scan# 246
 Delta R.T. 0.01 min
 Lab File: VL034899.D
 Acq: 16 Mar 2020 20:46

Tgt Ion: 45 Resp: 569049
 Ion Ratio Lower Upper
 45 100
 46 35.4 16.0 64.0





#15

Acetone

Concen: 10.009 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

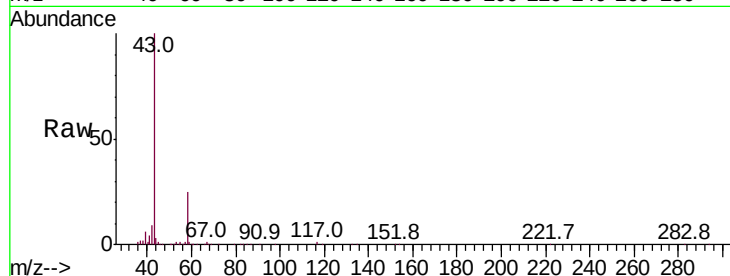
SV-01

Tot Ion: 43 Resp: 1206052

Ion Ratio Lower Upper

43 100

58 26.4 21.0 31.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

800000

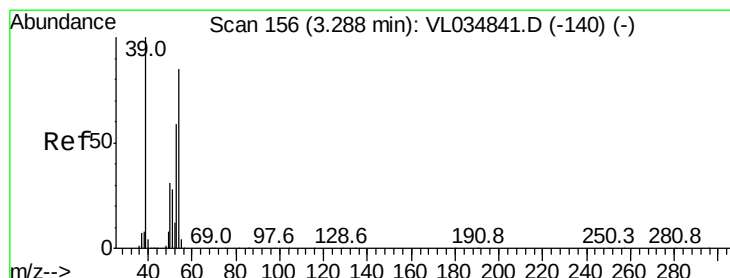
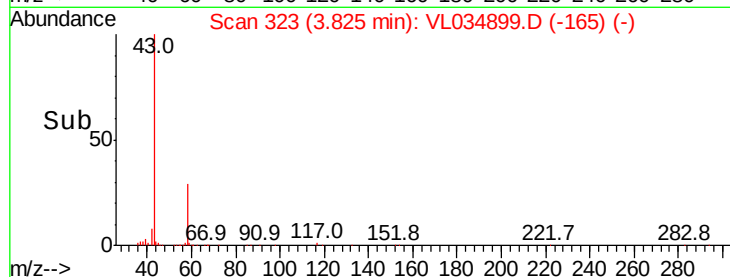
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 0.469 ppbv

RT: 3.32 min Scan# 165

Delta R.T. 0.03 min

Lab File: VL034899.D

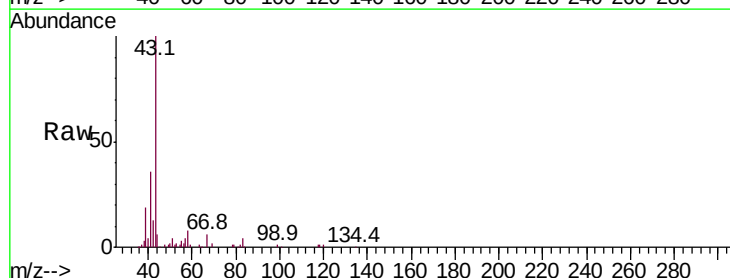
Acq: 16 Mar 2020 20:46

Tgt Ion: 39 Resp: 25575

Ion Ratio Lower Upper

39 100

54 7.4 65.0 97.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

25000

20000

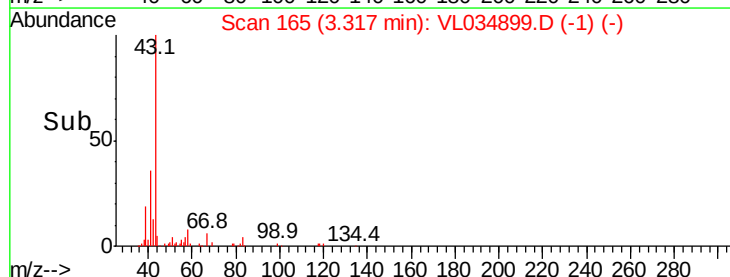
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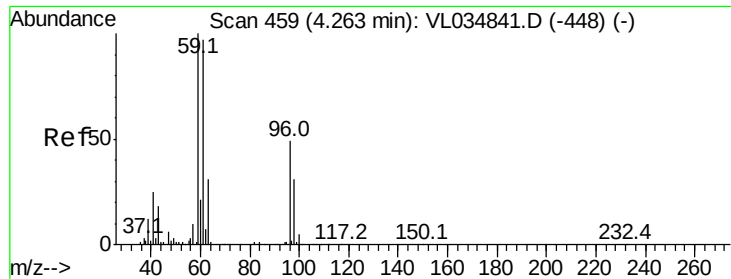
10000

5000

0

Time-->





#17

tert-Butyl alcohol

Concen: 0.714 ppbv

RT: 4.26 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

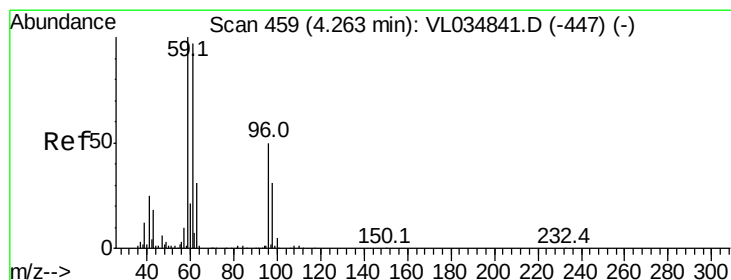
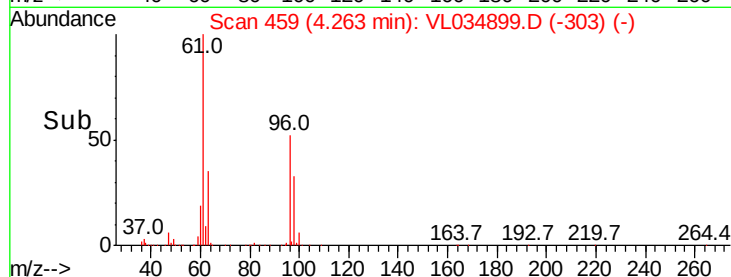
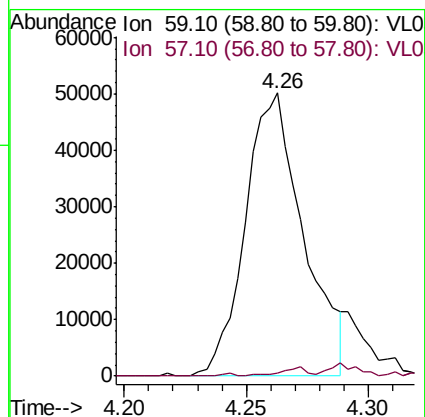
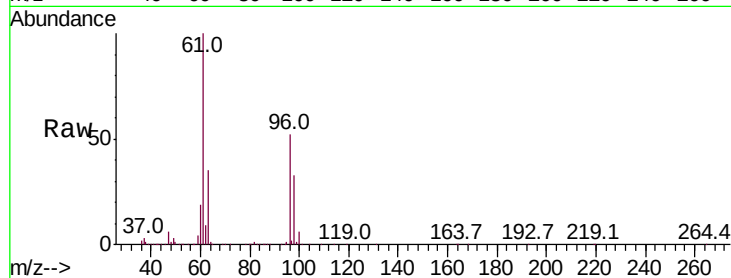
SV-01

Tot Ion: 59 Resp: 82829

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 23.171 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

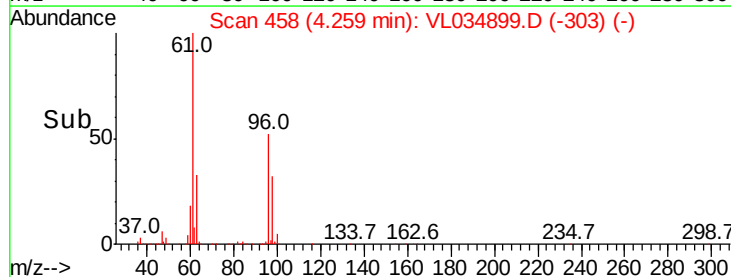
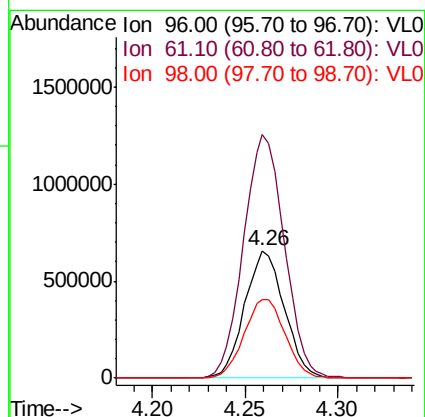
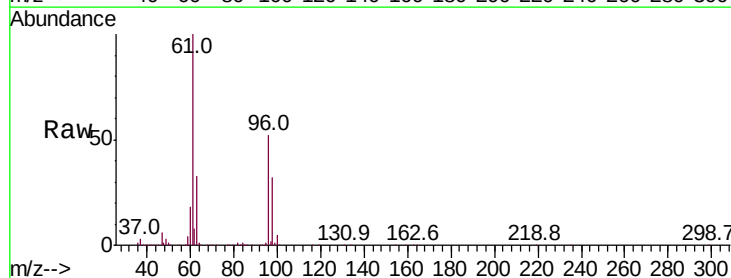
Tgt Ion: 96 Resp: 972659

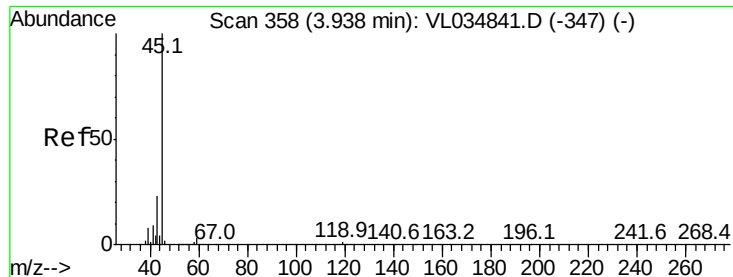
Ion Ratio Lower Upper

96 100

61 191.4 157.3 235.9

98 61.4 50.2 75.4





#19

Isopropyl Alcohol

Concen: 3.836 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

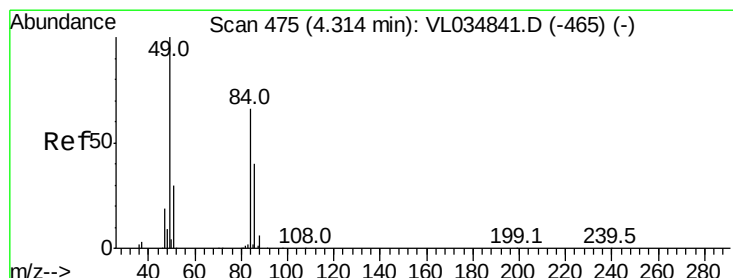
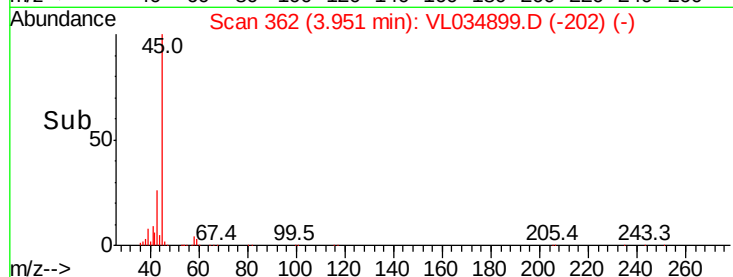
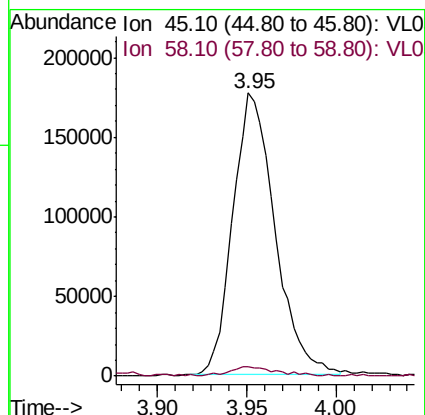
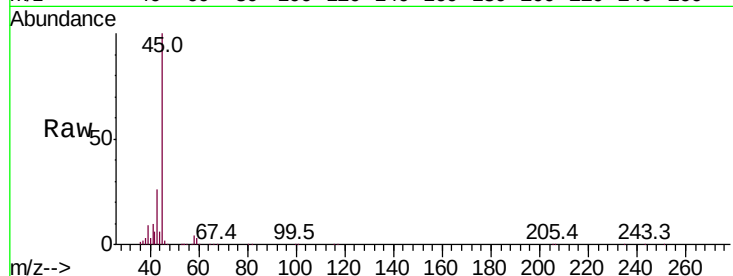
SV-01

Tot Ion: 45 Resp: 291919

Ion Ratio Lower Upper

45 100

58 4.6 30.5 45.7#



#20

Methylene Chloride

Concen: 4.986 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Tgt Ion: 84 Resp: 189941

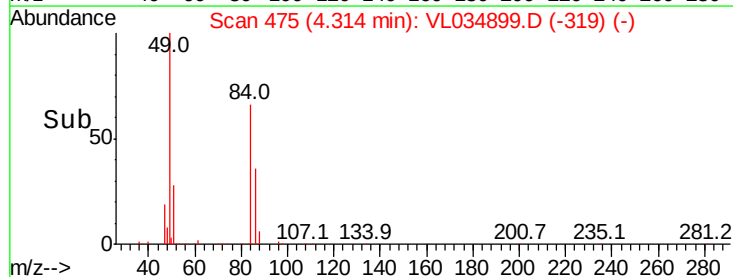
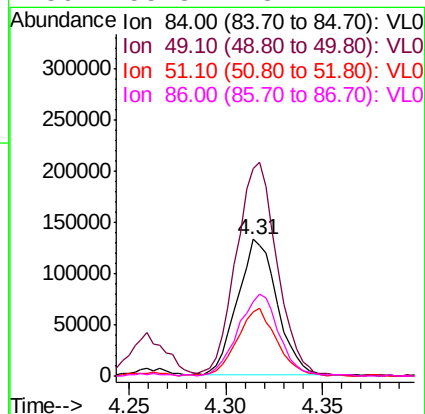
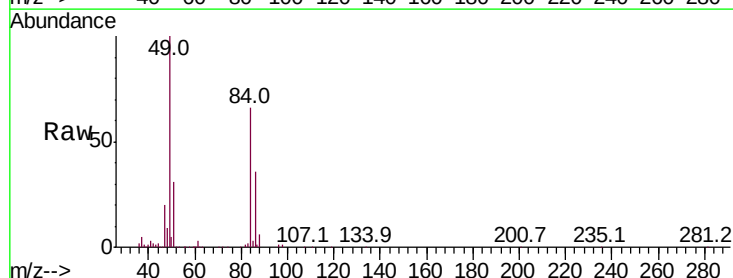
Ion Ratio Lower Upper

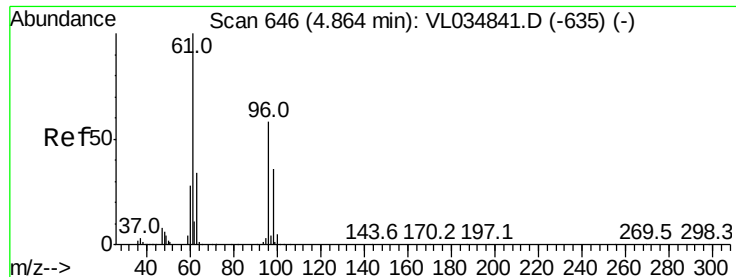
84 100

49 151.7 121.5 182.3

51 46.3 36.6 55.0

86 53.8 48.2 72.2





#22

trans-1,2-Dichloroethene

Concen: 1.612 ppbv

RT: 4.87 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

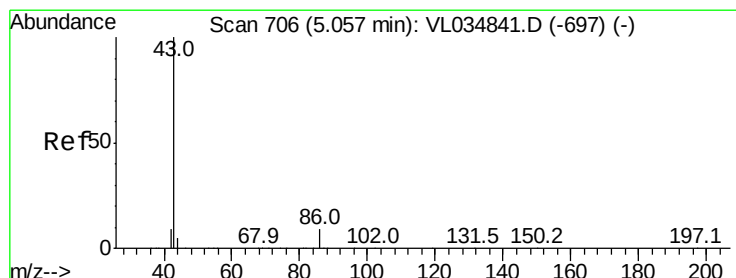
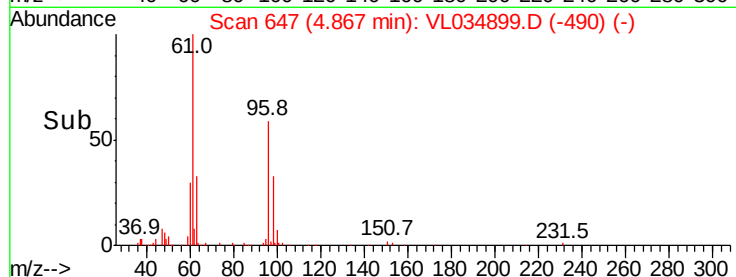
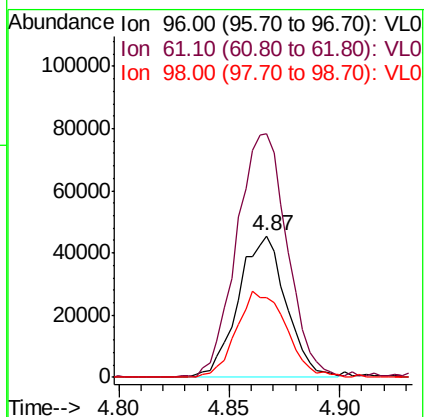
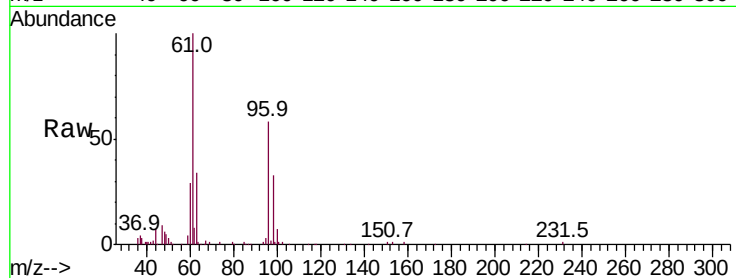
Tot Ion: 96 Resp: 68663

Ion Ratio Lower Upper

96 100

61 170.9 139.0 208.6

98 56.2 50.3 75.5



#23

Vinyl Acetate

Concen: 0.106 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Tgt Ion: 43 Resp: 18856

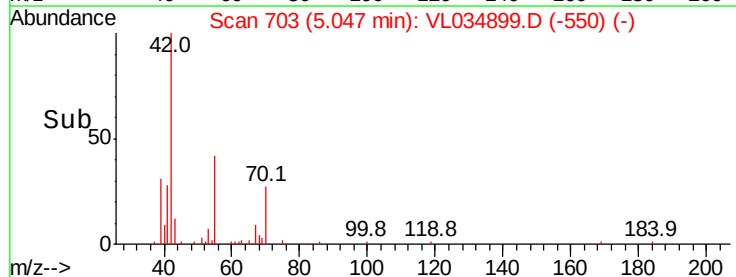
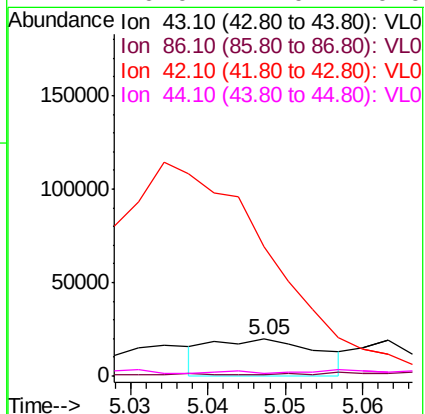
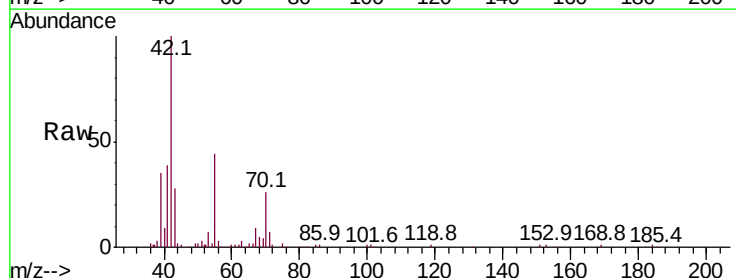
Ion Ratio Lower Upper

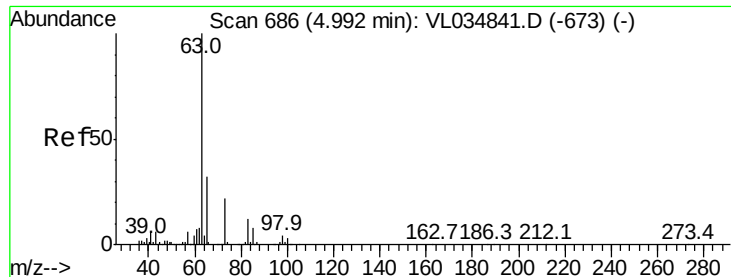
43 100

86 0.0 6.3 9.5#

42 719.4 7.8 11.8#

44 0.0 4.0 6.0#





#24

1,1-Dichloroethane

Concen: 1.425 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

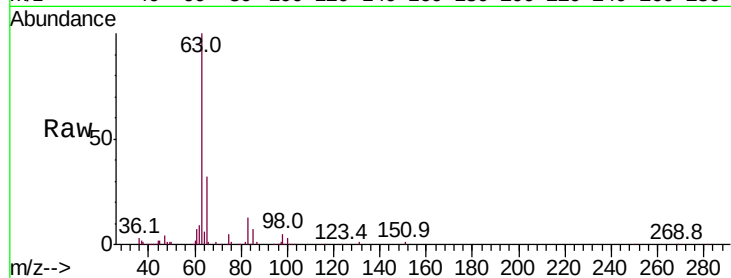
Tot Ion: 63 Resp: 170028

Ion Ratio Lower Upper

63 100

98 5.6 2.0 5.8

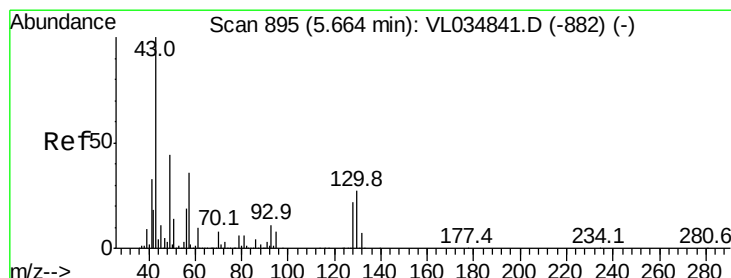
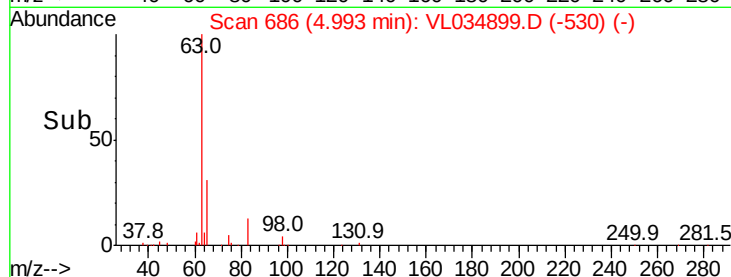
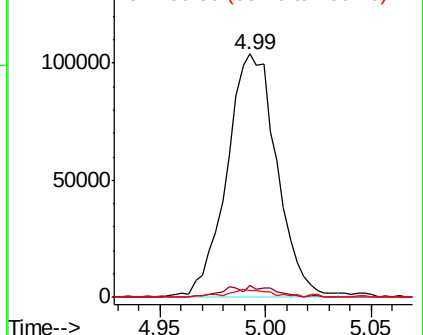
100 3.0 1.4 4.0



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: 0.446 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Tgt Ion: 43 Resp: 95647

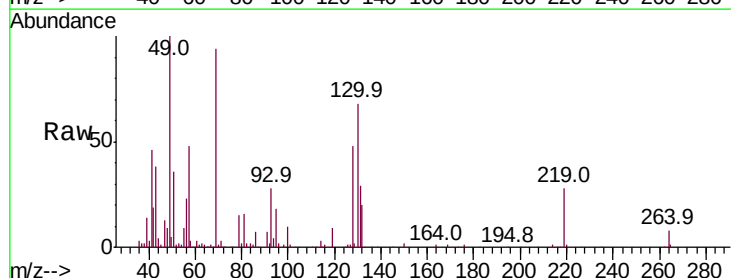
Ion Ratio Lower Upper

43 100

45 4.1 8.2 12.2#

61 0.0 7.8 11.6#

70 17.5 5.8 8.8#

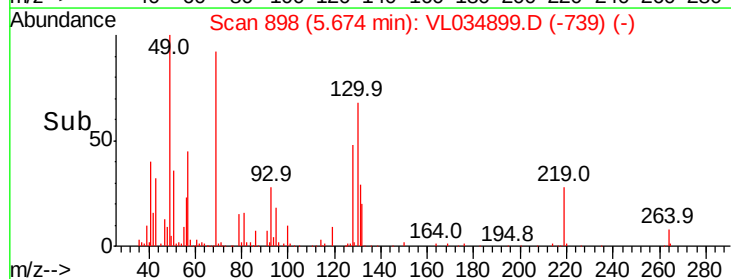
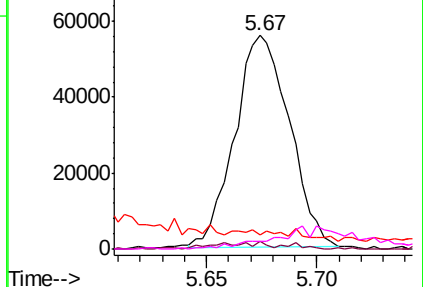


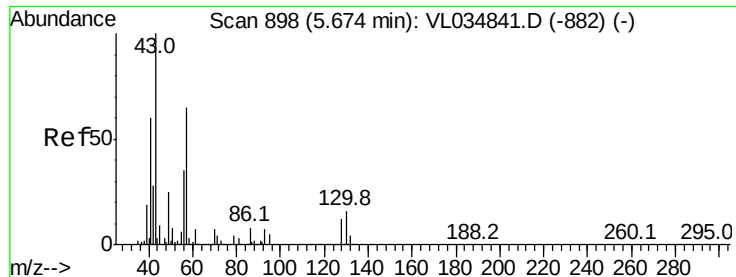
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.299 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion: 57 Resp: 120076

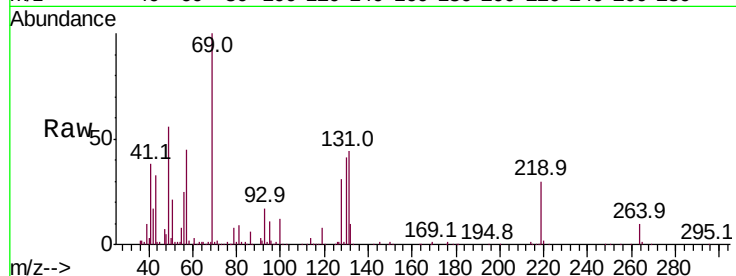
Ion Ratio Lower Upper

57 100

41 101.6 72.6 109.0

43 82.8 183.8 275.6#

56 56.3 41.9 62.9

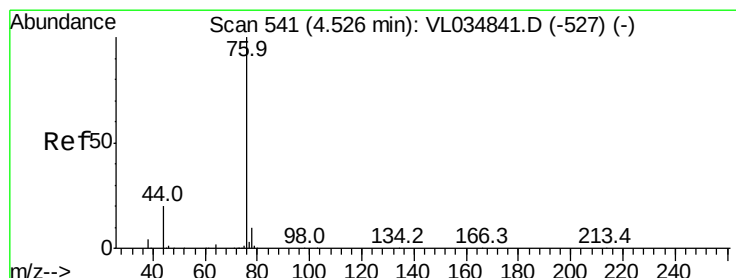
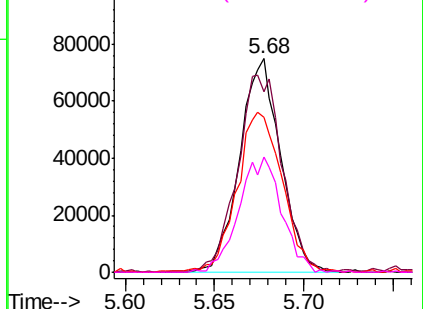
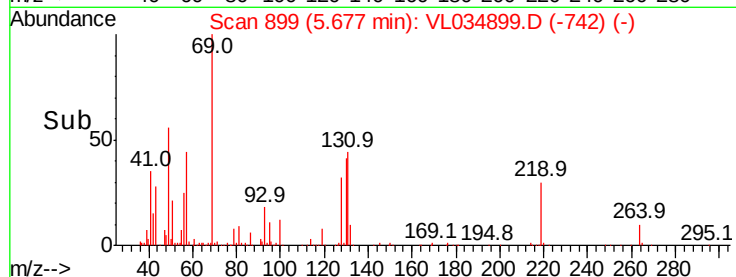


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.031 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

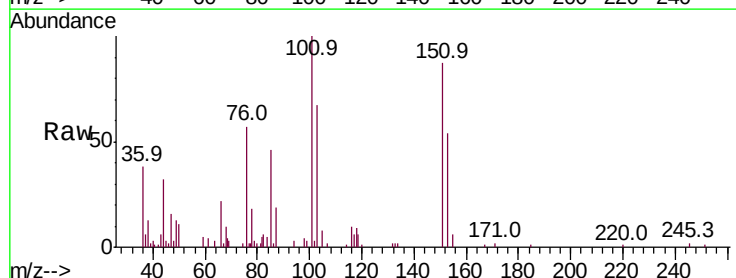
Tgt Ion: 76 Resp: 3251

Ion Ratio Lower Upper

76 100

44 0.0 16.2 24.2#

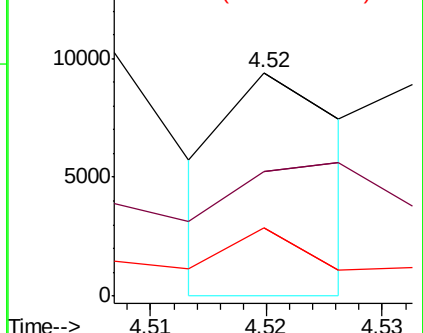
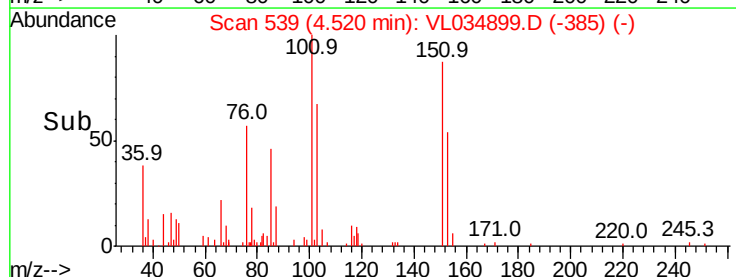
78 0.0 7.8 11.6#

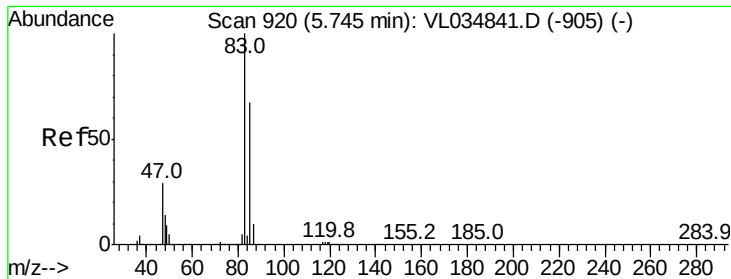


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

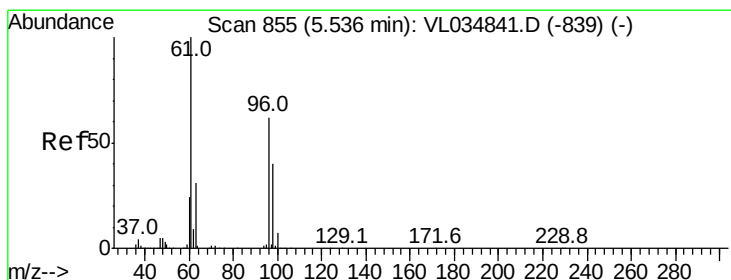
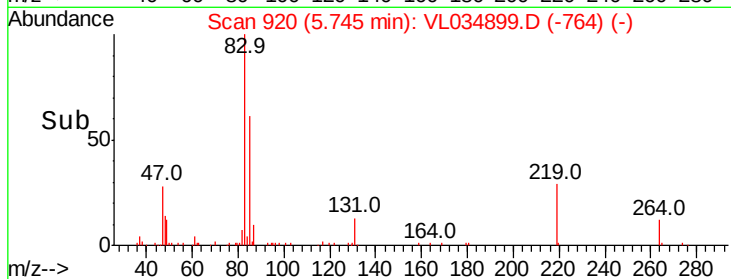
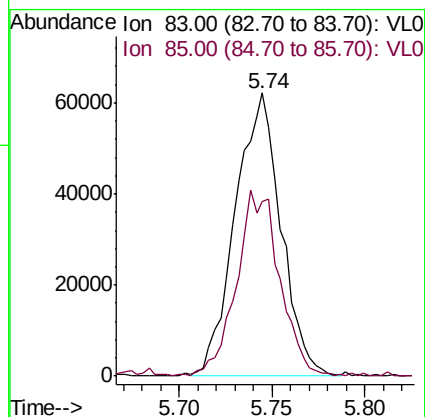
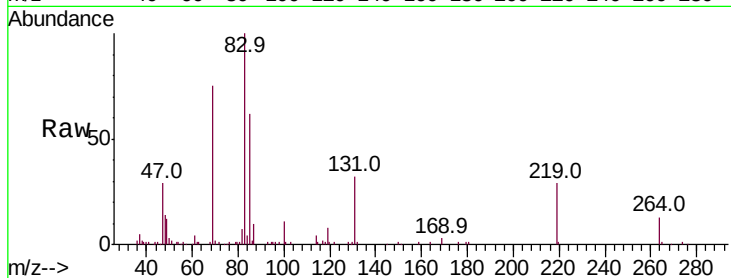




#29
Chloroform
Concen: 0.755 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

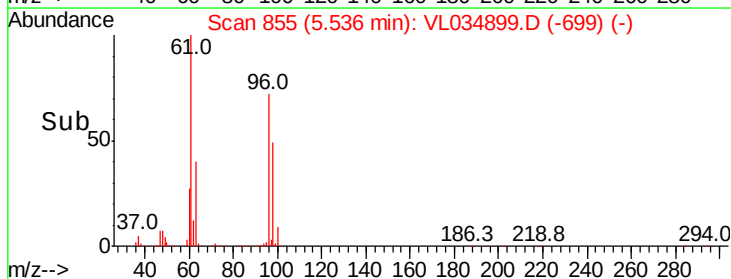
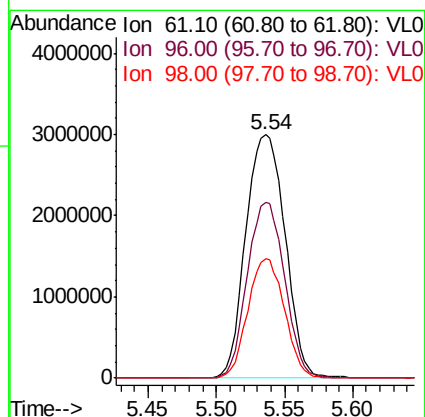
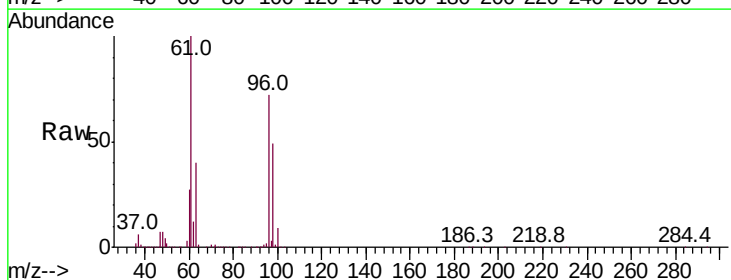
Instrument :
MSVOA_L
ClientSampleId :
SV-01

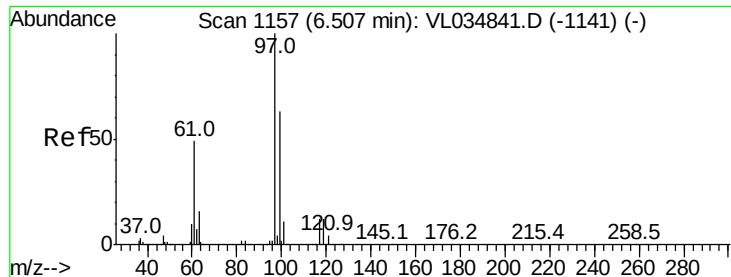
Tot Ion: 83 Resp: 106521
Ion Ratio Lower Upper
83 100
85 61.4 53.8 80.6



#31
cis-1,2-Dichloroethene
Concen: 63.512 ppbv
RT: 5.54 min Scan# 855
Delta R.T. 0.00 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Tgt Ion: 61 Resp: 6003963
Ion Ratio Lower Upper
61 100
96 72.1 49.8 74.8
98 49.3 32.2 48.4#





#32

1,1,1-Trichloroethane

Concen: 5.179 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

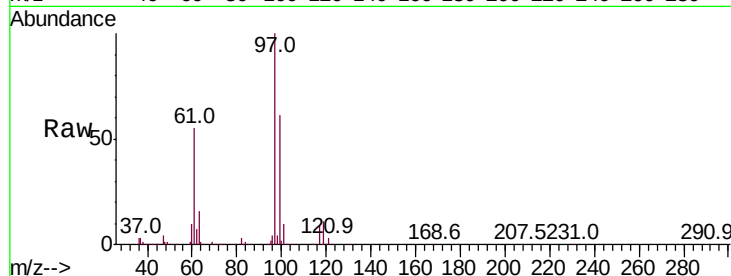
Tot Ion: 97 Resp: 711745

Ion Ratio Lower Upper

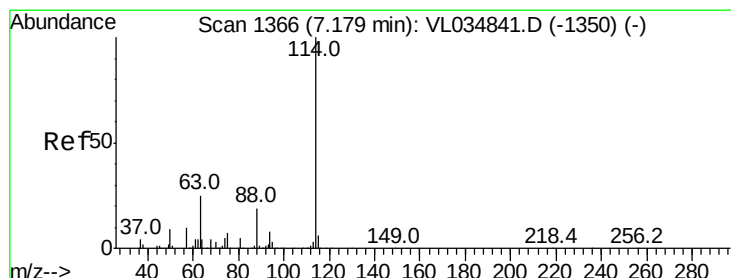
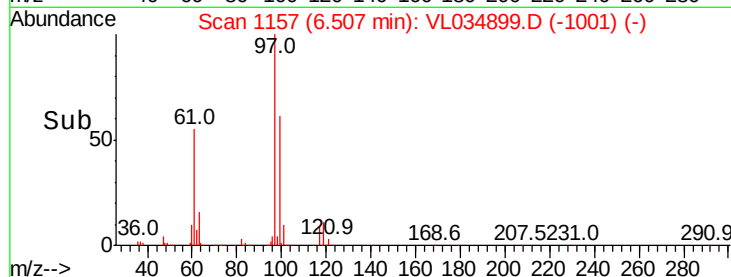
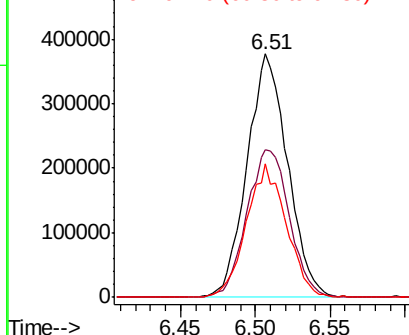
97 100

99 63.8 51.1 76.7

61 53.8 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: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

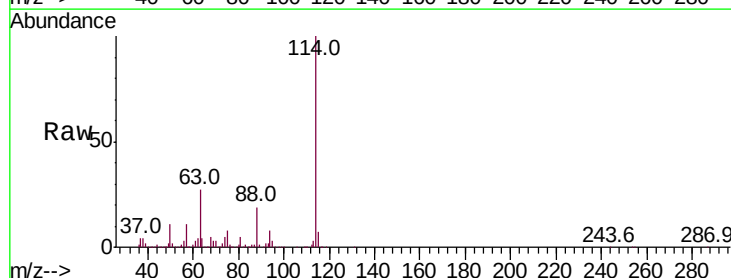
Tgt Ion: 114 Resp: 1951874

Ion Ratio Lower Upper

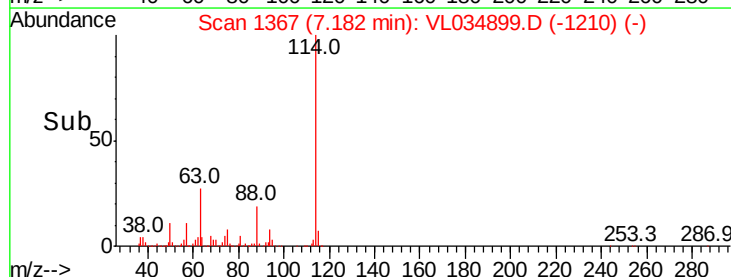
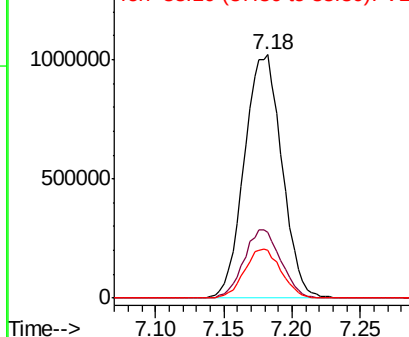
114 100

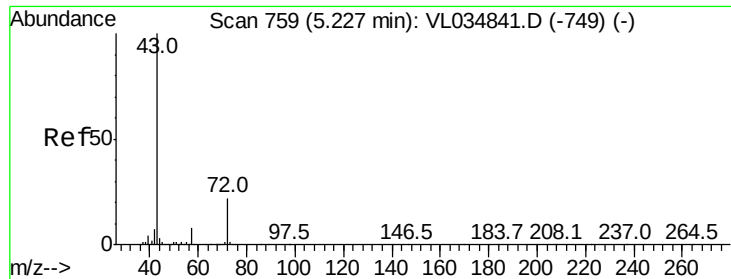
63 27.8 20.6 31.0

88 19.6 15.0 22.6



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





#34

2-Butanone

Concen: 0.422 ppbv

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

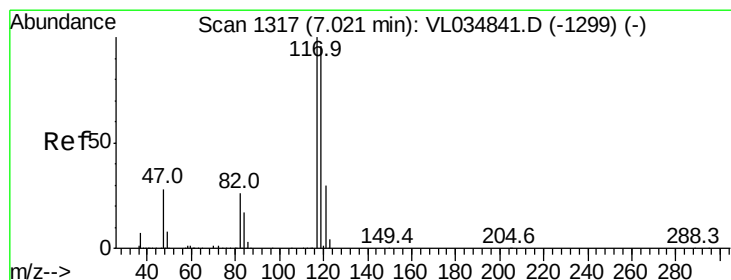
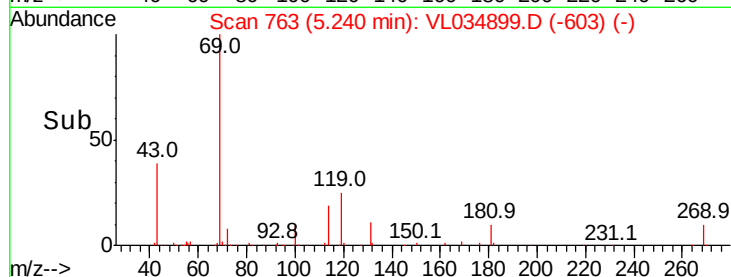
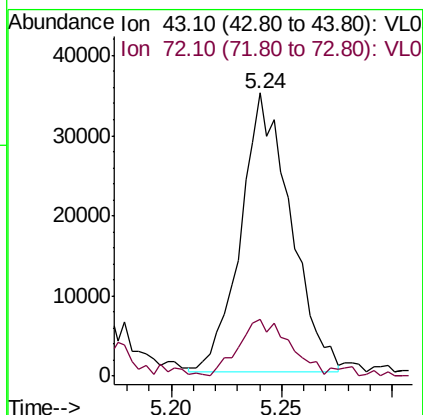
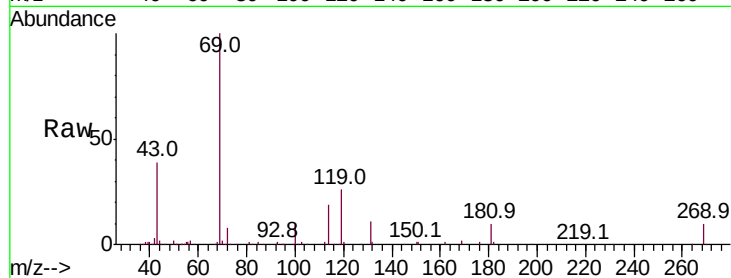
SV-01

Tot Ion: 43 Resp: 54743

Ion Ratio Lower Upper

43 100

72 22.9 17.6 26.4



#35

Carbon Tetrachloride

Concen: 0.037 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

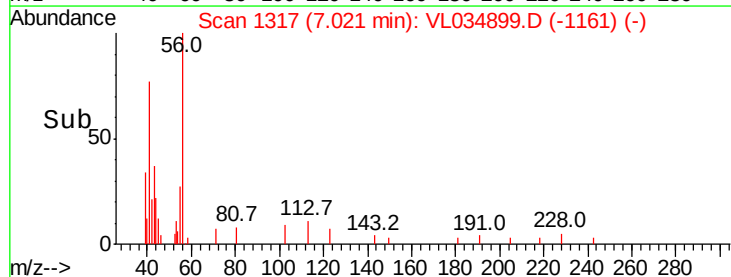
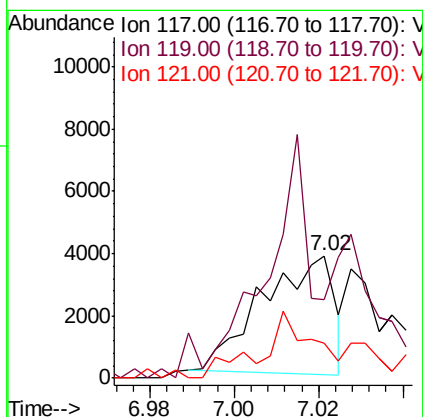
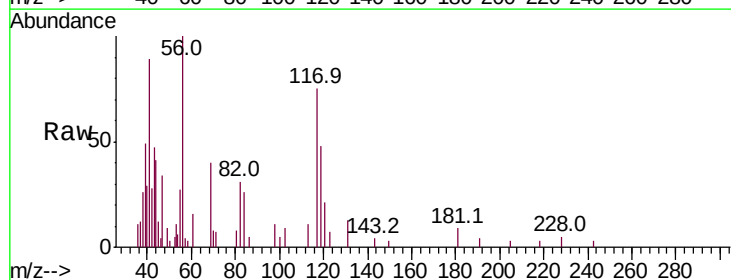
Tgt Ion: 117 Resp: 4447

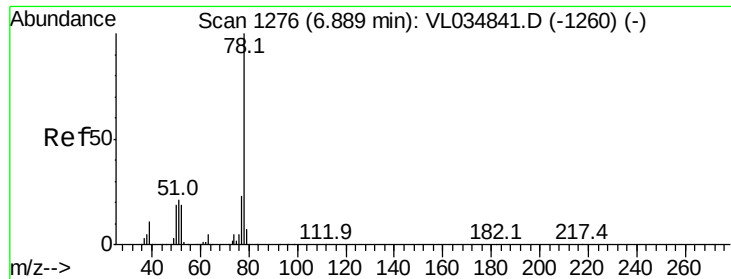
Ion Ratio Lower Upper

117 100

119 28.7 77.0 115.4#

121 30.5 24.0 36.0





#36

Benzene

Concen: 0.197 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

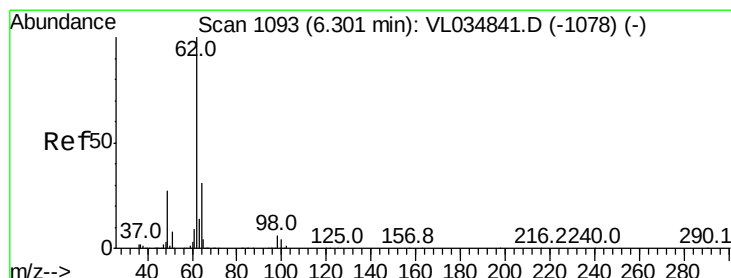
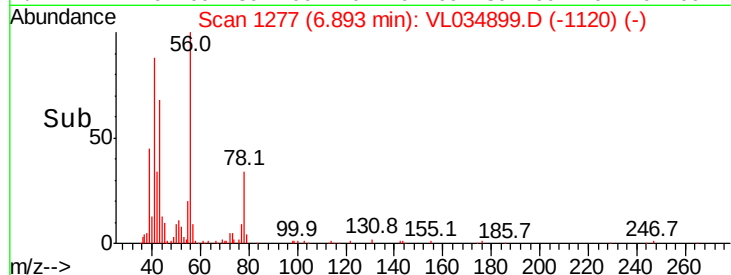
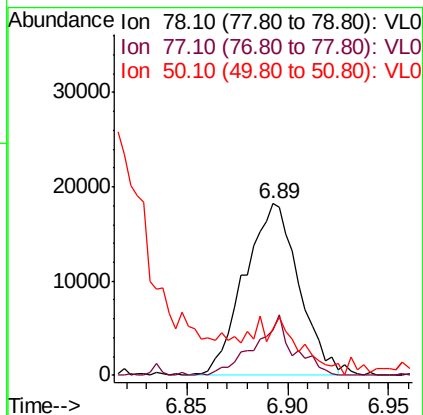
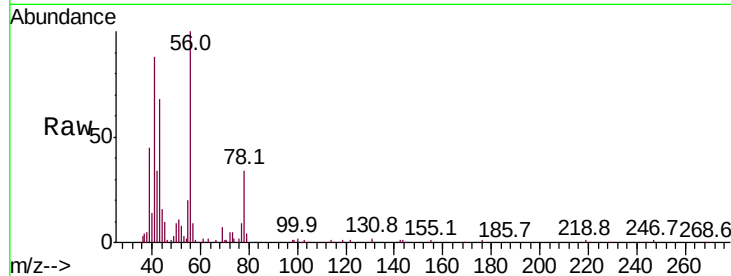
Tot Ion: 78 Resp: 34229

Ion Ratio Lower Upper

78 100

77 26.3 18.2 27.2

50 19.9 15.2 22.8



#37

1,2-Dichloroethane

Concen: 0.540 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. 0.20 min

Lab File: VL034899.D

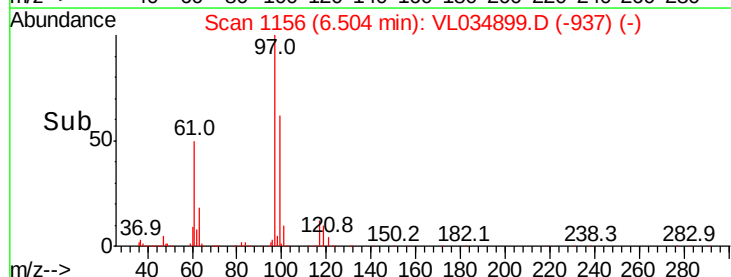
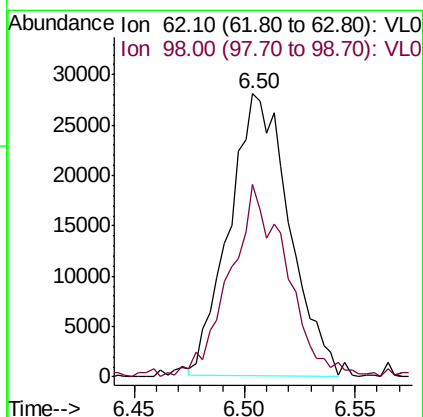
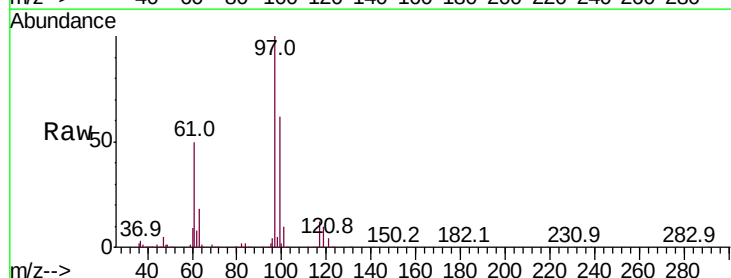
Acq: 16 Mar 2020 20:46

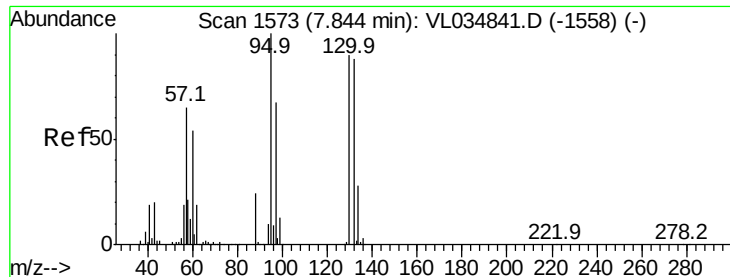
Tgt Ion: 62 Resp: 52925

Ion Ratio Lower Upper

62 100

98 65.9 5.2 7.8#





#38

Trichloroethene

Concen: 128.073 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion:130 Resp: 8462529

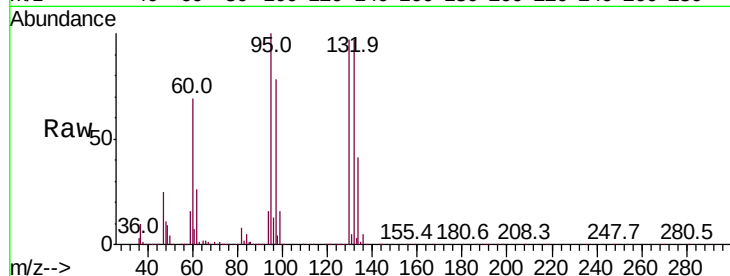
Ion Ratio Lower Upper

130 100

95 103.0 88.5 132.7

132 99.5 78.0 117.0

97 80.2 59.3 88.9

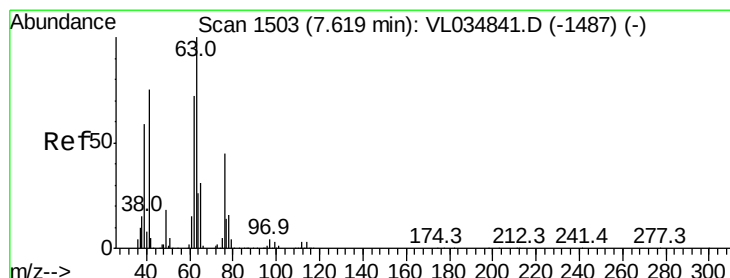
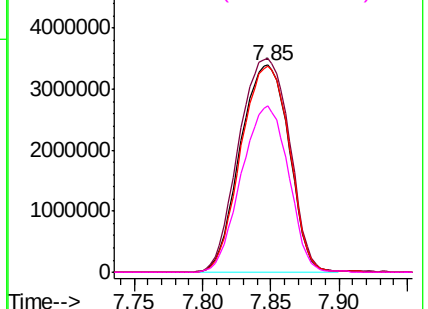
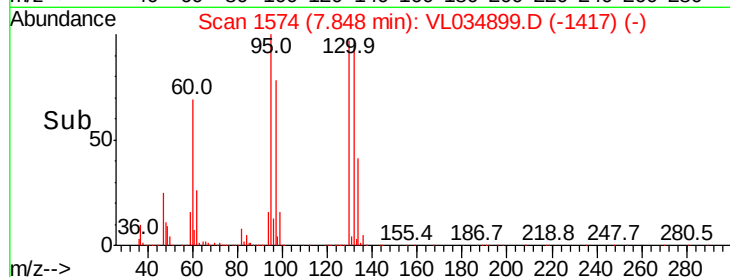


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.338 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. 0.22 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

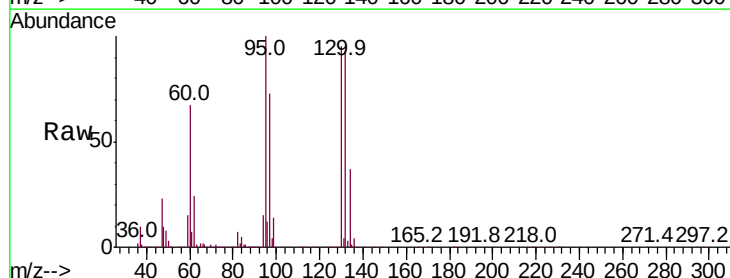
Tgt Ion: 63 Resp: 23287

Ion Ratio Lower Upper

63 100

41 9.3 59.8 89.8#

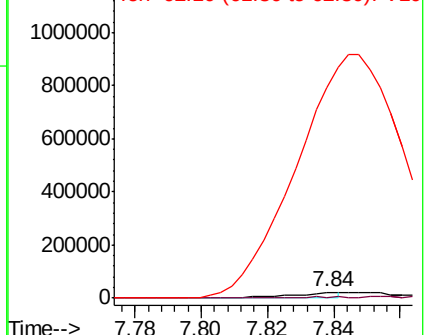
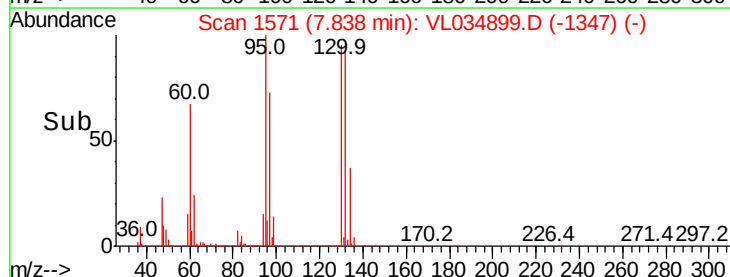
62 3695.3 57.6 86.4#

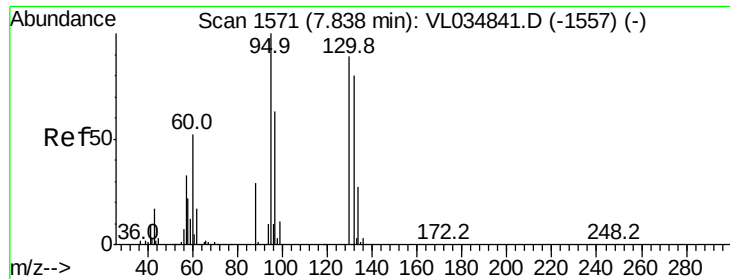


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#40

1,4-Dioxane

Concen: 0.155 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion: 88 Resp: 4039

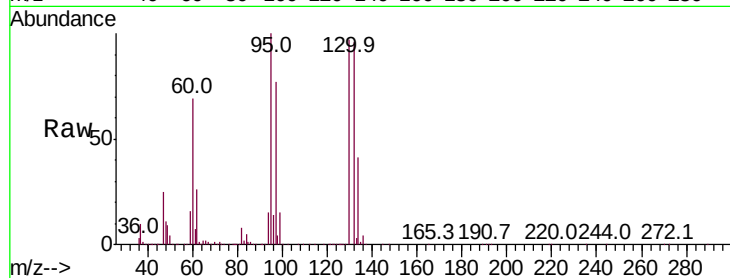
Ion Ratio Lower Upper

88 100

58 97.5 103.9 155.9#

43 102.5 0.0 0.0#

57 0.0 0.0 0.0

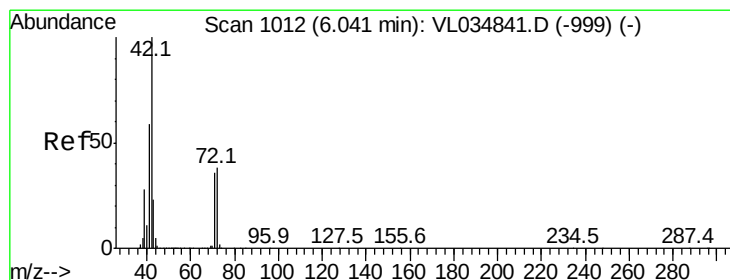
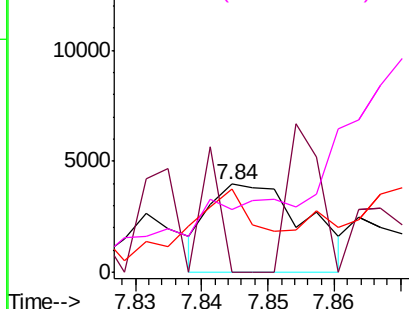
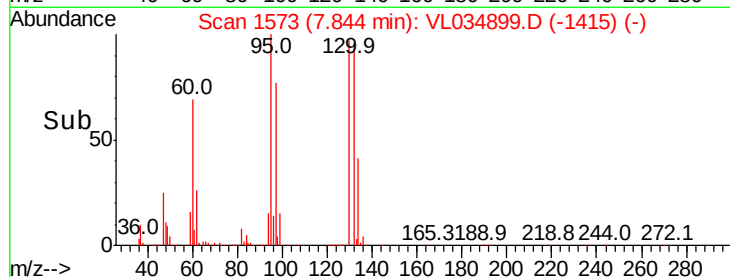


Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#41

Tetrahydrofuran

Concen: 0.045 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. 0.02 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

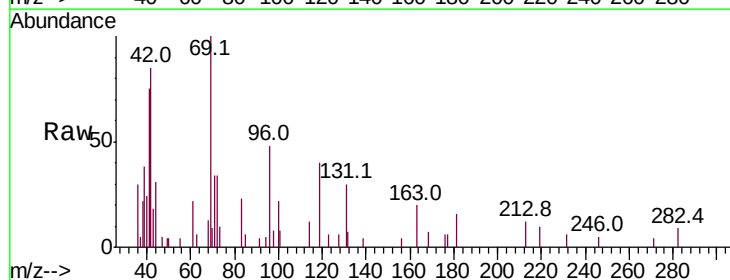
Tgt Ion: 42 Resp: 3148

Ion Ratio Lower Upper

42 100

72 94.4 30.8 46.2#

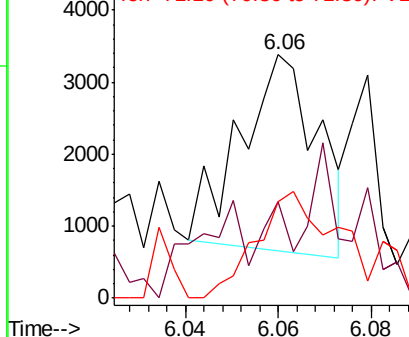
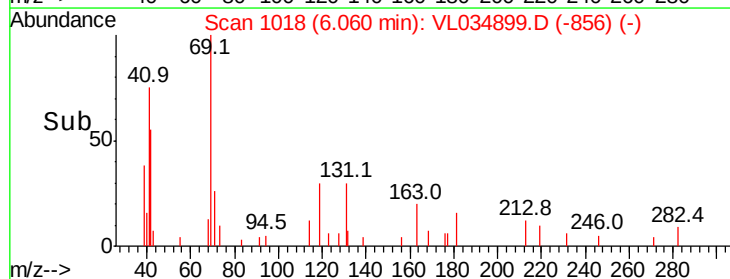
71 72.9 30.1 45.1#

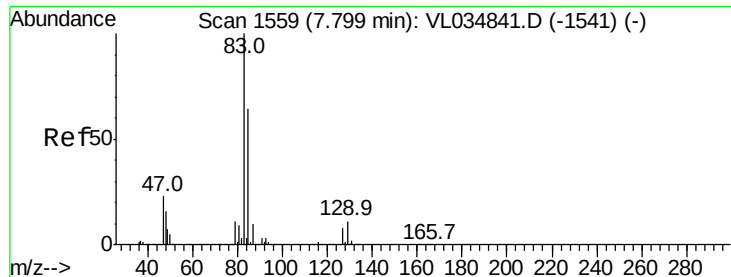


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 1.102 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.05 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

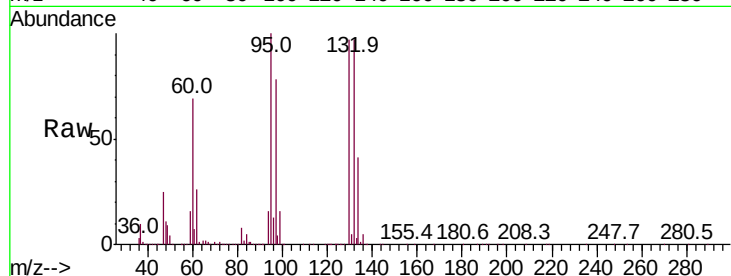
Tot Ion: 83 Resp: 147397

Ion Ratio Lower Upper

83 100

85 75.8 51.4 77.2

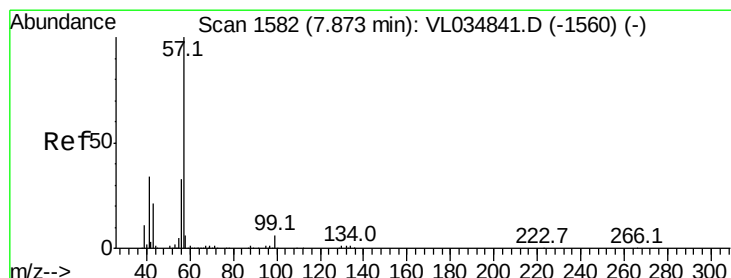
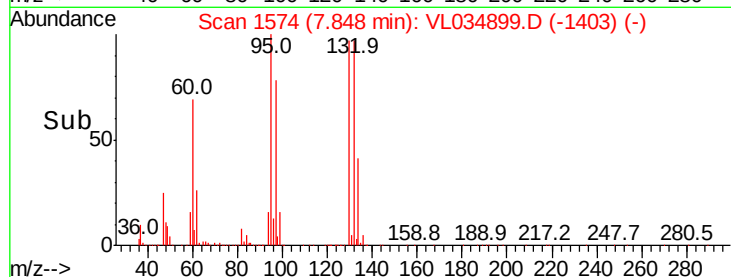
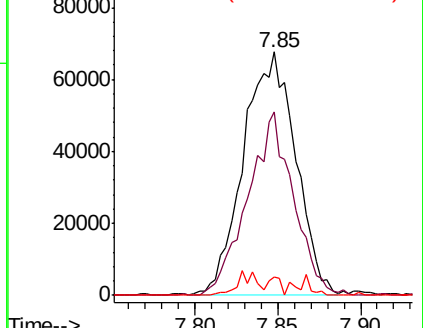
127 7.8 6.2 9.4



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



#44

2,2,4-Trimethylpentane

Concen: 0.065 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

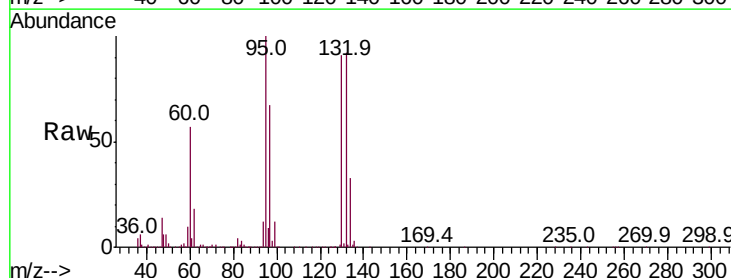
Tgt Ion: 57 Resp: 18999

Ion Ratio Lower Upper

57 100

41 109.4 26.2 39.4#

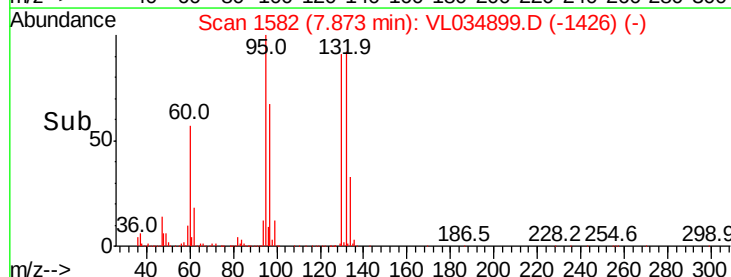
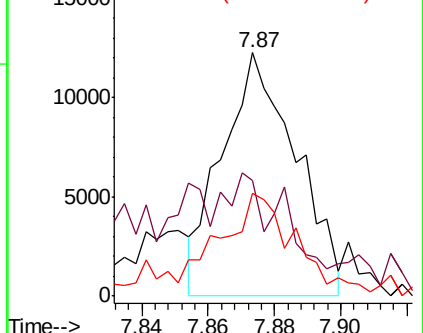
56 57.7 25.0 37.4#

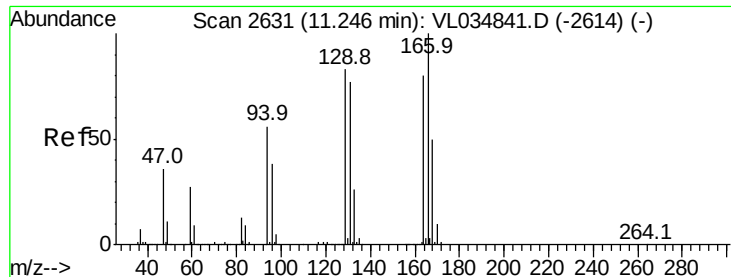


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 6.511 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. -0.01 min

Lab File: VL034899.D

Acq: 16 Mar 2020 20:46

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion:164 Resp: 448152

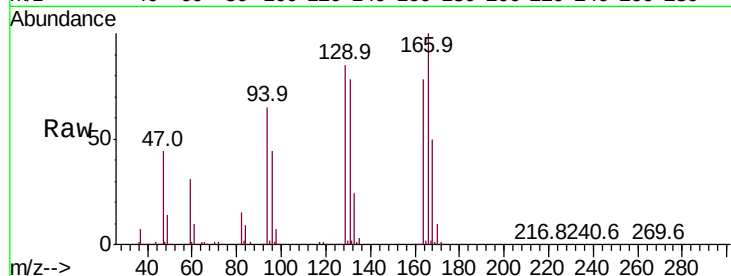
Ion Ratio Lower Upper

164 100

166 127.8 100.0 150.0

129 108.3 83.1 124.7

131 100.3 77.2 115.8



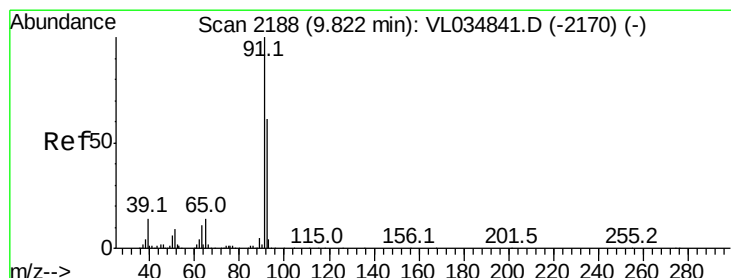
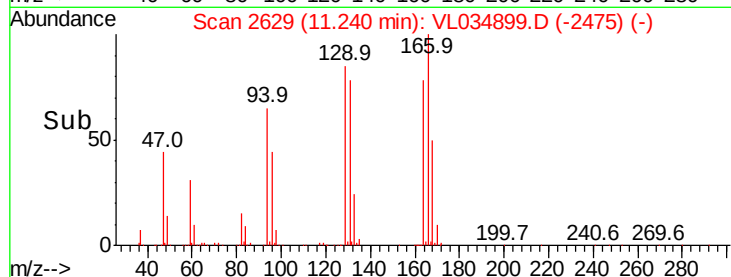
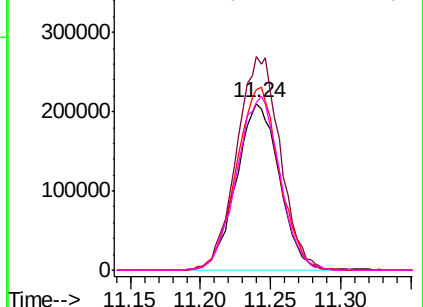
Abundance

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: 0.337 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034899.D

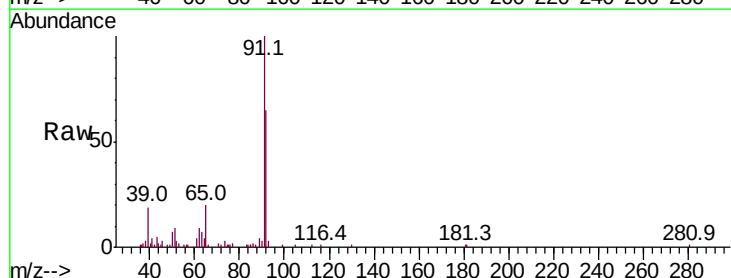
Acq: 16 Mar 2020 20:46

Tgt Ion: 91 Resp: 67650

Ion Ratio Lower Upper

91 100

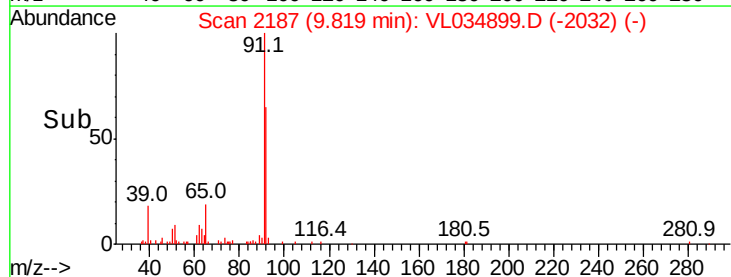
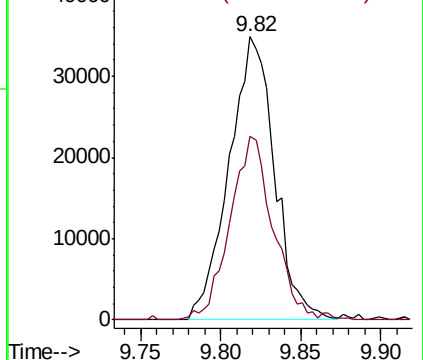
92 61.7 48.6 72.8

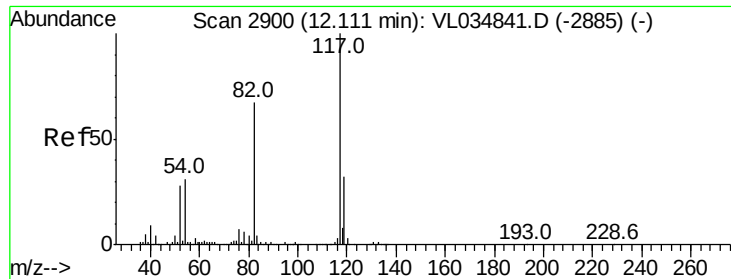


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

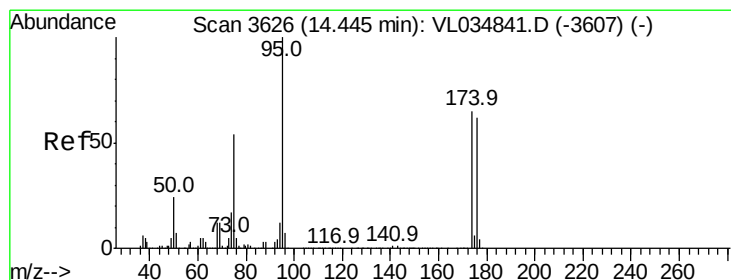
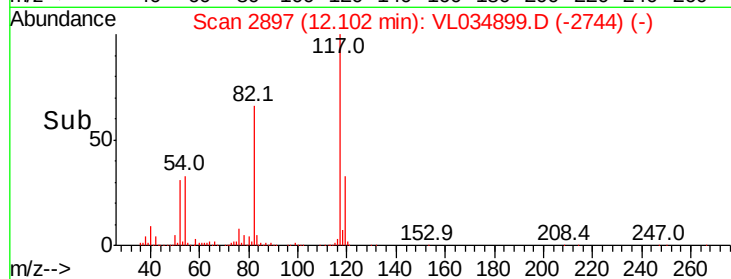
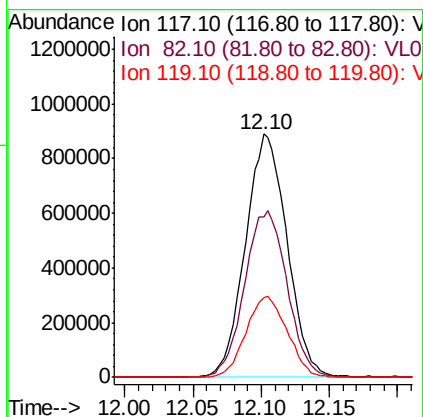
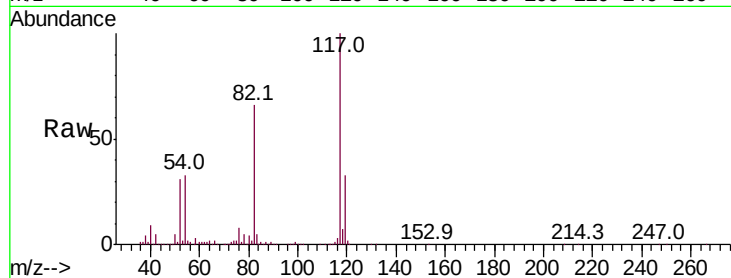




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Instrument :
MSVOA_L
ClientSampleId :
SV-01

Tot Ion:117 Resp: 1884439
Ion Ratio Lower Upper
117 100
82 70.4 51.1 76.7
119 33.3 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.284 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. -0.01 min
Lab File: VL034899.D
Acq: 16 Mar 2020 20:46

Tgt Ion: 95 Resp: 1511373
Ion Ratio Lower Upper
95 100
174 64.4 55.2 82.8
175 4.9 4.3 6.5

