

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033940.D
 Acq On : 24 Jun 2019 17:18
 Operator : SY/AP
 Sample : K3481-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-2

Manual Integrations
 APPROVED

MMDadoda
 7/1/2019 5:01:19 PM

Quant Time: Jun 25 21:28:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	948239	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.27	114	2392895	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2401035	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1930399	9.79	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	52100	0.339	ppbv	97
3) Chlorodifluoromethane	3.01	51	222494m	1.993	ppbv	
4) Chloromethane	3.17	50	39996	0.628	ppbv #	88
9) Propene	3.04	41	25293	0.606	ppbv #	82
11) Trichlorofluoromethane	3.99	101	42554	0.214	ppbv	94
13) Ethanol	3.64	45	153838	11.320	ppbv	99
15) Acetone	3.89	43	803048	5.807	ppbv	99
17) tert-Butyl alcohol	4.35	59	63511	0.587	ppbv	100
19) Isopropyl Alcohol	4.02	45	115457	1.461	ppbv #	1
20) Methylene Chloride	4.39	84	132706	2.461	ppbv	97
26) Hexane	5.76	57	210388	2.194	ppbv #	41
34) 2-Butanone	5.32	43	110175	0.816	ppbv	94
35) Carbon Tetrachloride	7.11	117	11620m	0.063	ppbv	
36) Benzene	6.98	78	34121	0.187	ppbv	96
44) 2,2,4-Trimethylpentane	7.97	57	34261m	0.105	ppbv	
52) Tetrachloroethene	11.34	164	3073m	0.048	ppbv	
53) Toluene	9.92	91	3198555	15.813	ppbv	98
58) Ethyl Benzene	12.83	91	1413939	5.223	ppbv	97
59) m/p-Xylene	13.09	91	5009912	20.352	ppbv	97
60) o-Xylene	13.82	91	1546176	6.083	ppbv	98
74) 1,2,4-Trimethylbenzene	16.89	105	70514m	0.215	ppbv	

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

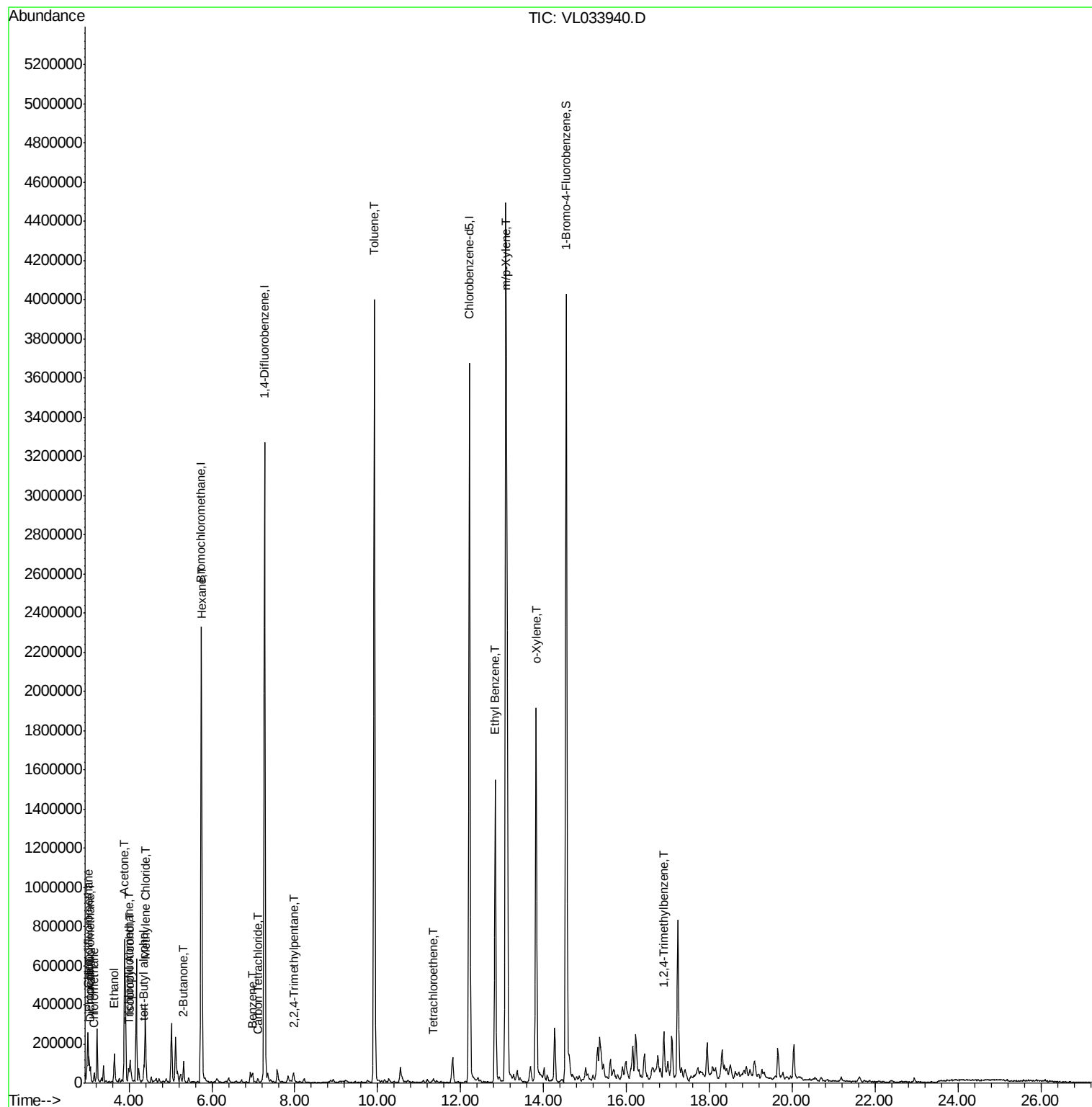
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062419\
Data File : VL033940.D
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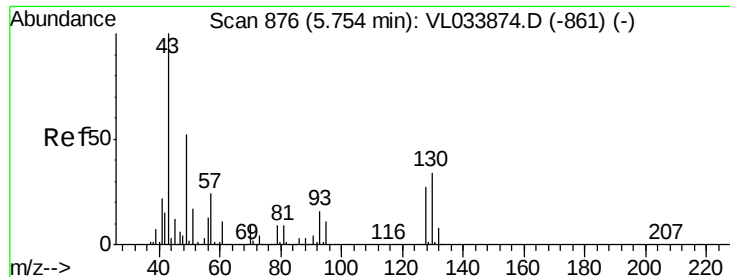
Instrument :
MSVOA_L
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TZX-SSDS-AREA-D-2

Manual Integrations
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Quant Time: Jun 25 21:28:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Instrument :

MSVOA_L

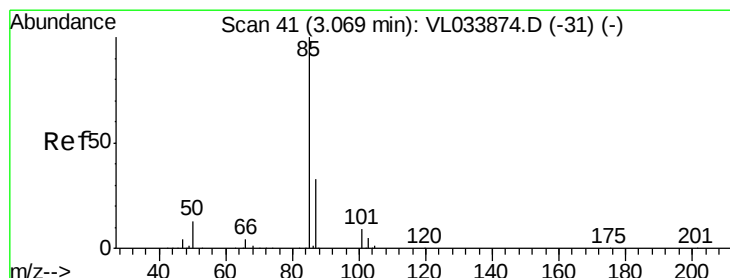
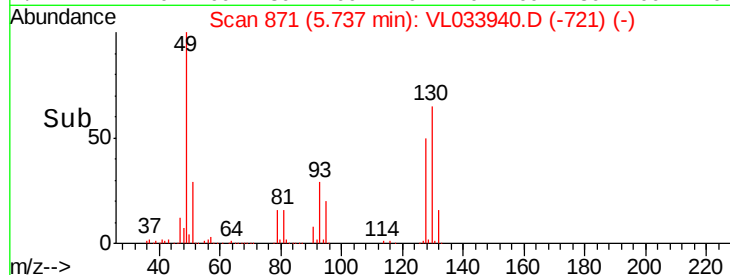
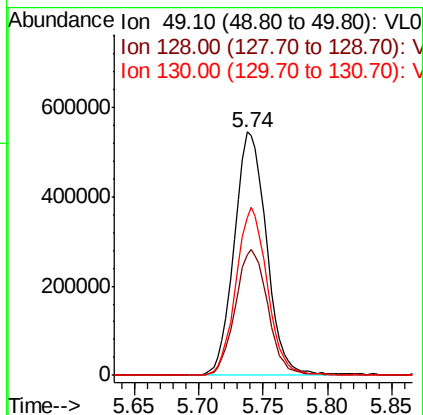
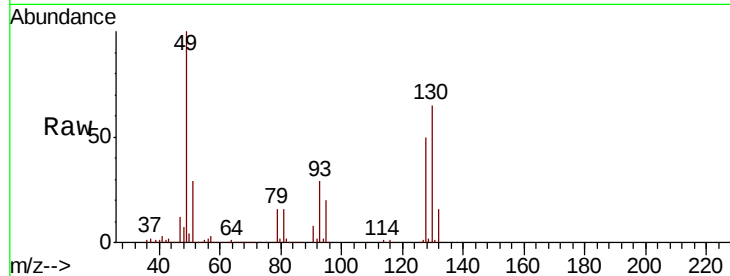
ClientSampleId :

TZC-SSDS-AREA-D-2

Tot Ion:	49	Resp:	948239
Ion	Ratio	Lower	Upper
49	100		
128	52.4	25.5	76.5
130	67.5	32.5	97.4

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#2

Dichlorodifluoromethane

Concen: 0.339 ppbv

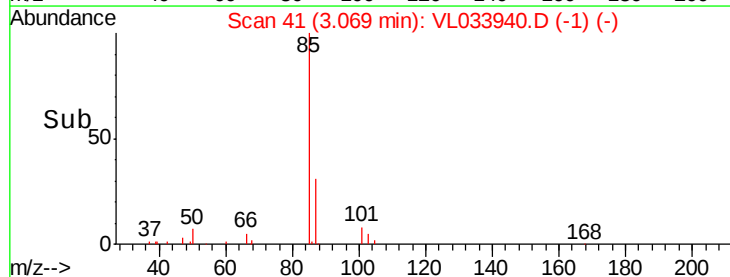
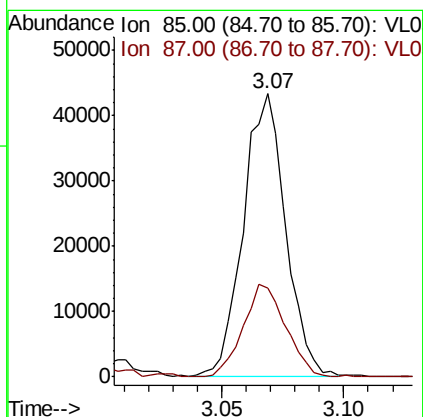
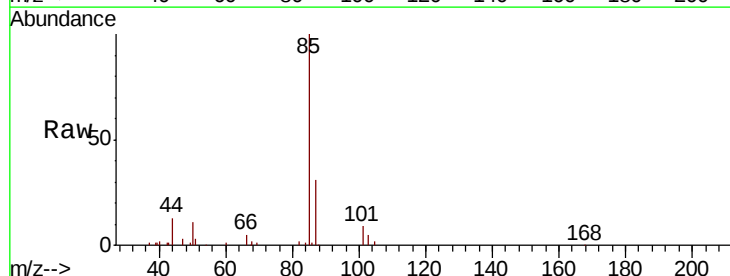
RT: 3.07 min Scan# 41

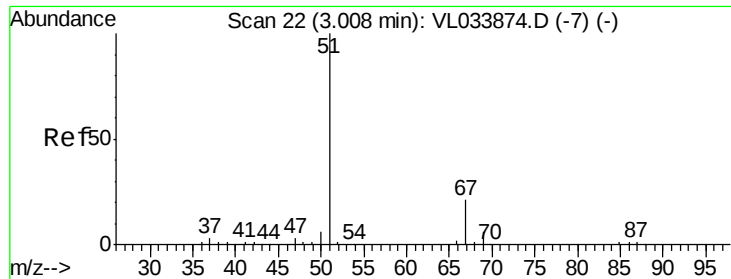
Delta R.T. -0.00 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Tgt Ion:	85	Resp:	52100
Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.6	40.0





#3

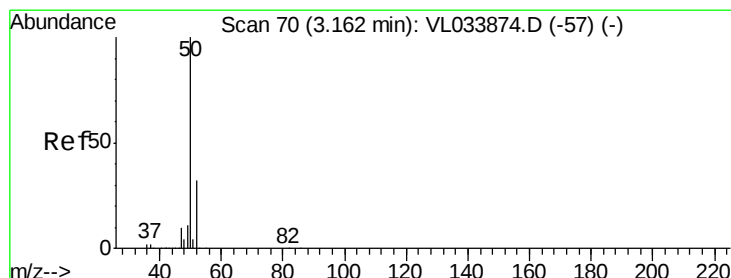
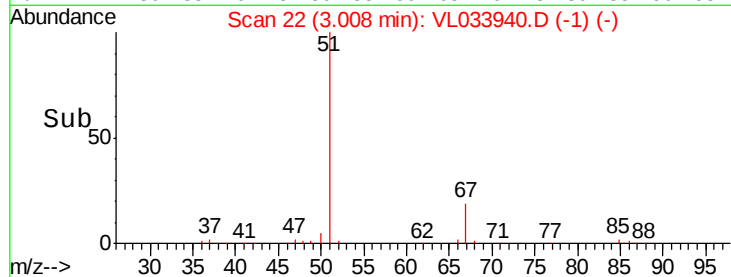
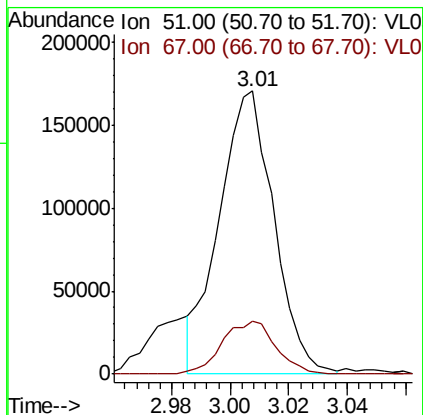
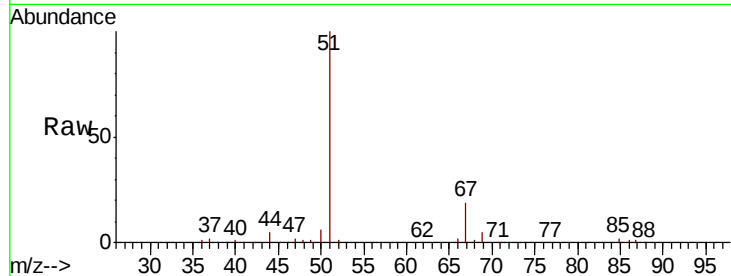
Chlorodifluoromethane
 Concen: 1.993 ppbv
 RT: 3.01 min Scan# 22
 Delta R.T. -0.00 min
 Lab File: VL033940.D
 Acq: 24 Jun 2019 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-2

Tot Ion	51	Resp	222494
Ion Ratio	100	Lower	Upper
51	100		
67	18.6	16.4	24.6

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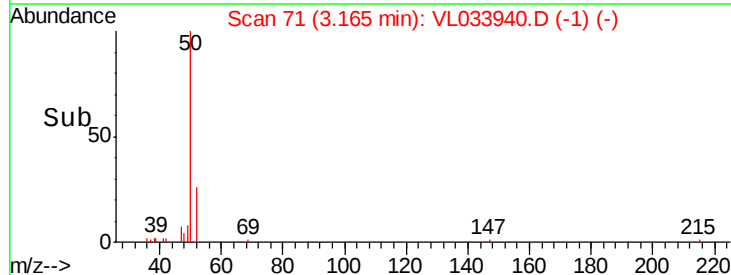
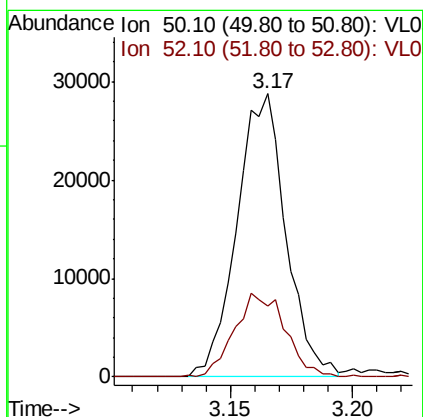
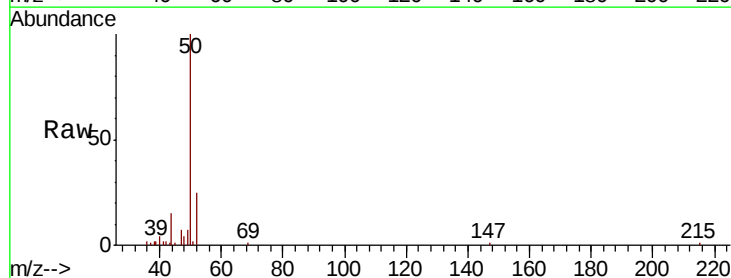
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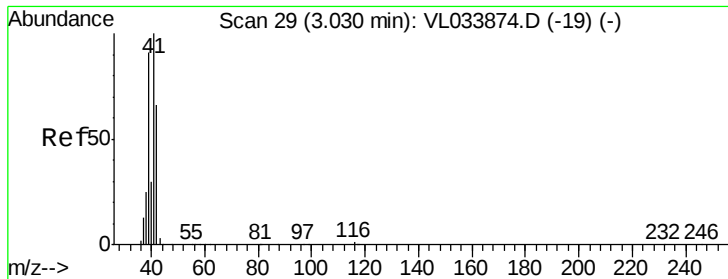


#4

Chloromethane
 Concen: 0.628 ppbv
 RT: 3.17 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VL033940.D
 Acq: 24 Jun 2019 17:18

Tgt Ion	50	Resp	39996
Ion Ratio	100	Lower	Upper
50	100		
52	25.0	25.4	38.0





#9

Propene

Concen: 0.606 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.01 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2

Tot Ion: 41 Resp: 25293

Ion Ratio Lower Upper

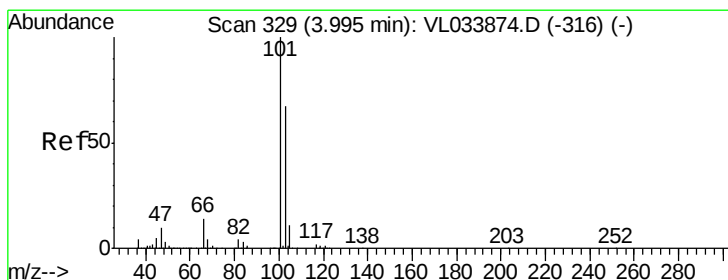
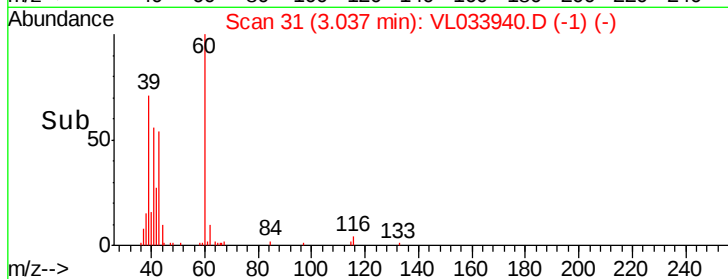
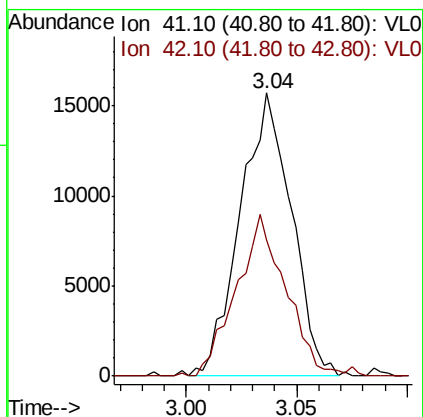
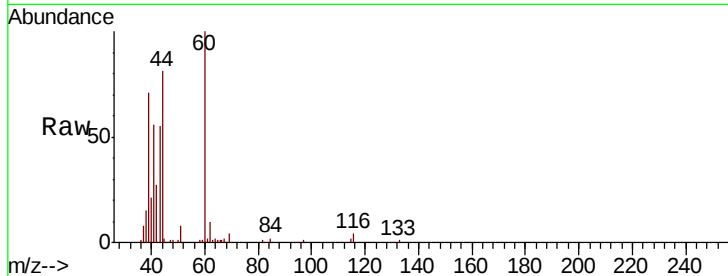
41 100

42 55.7 56.3 84.5#

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#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 3.99 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL033940.D

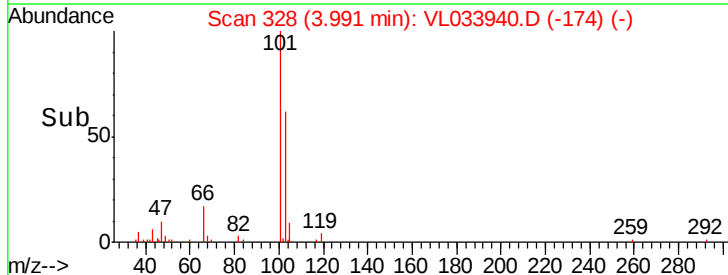
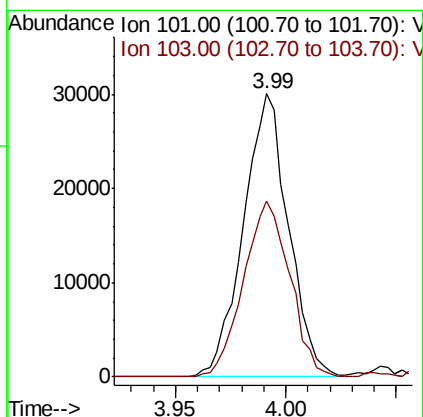
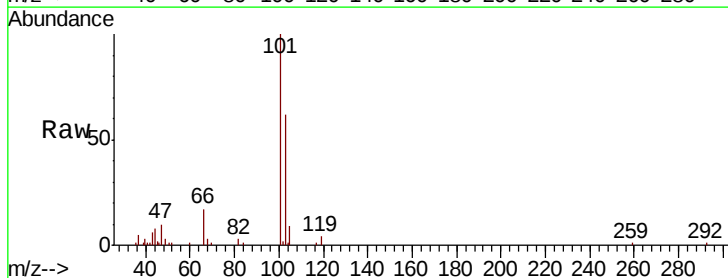
Acq: 24 Jun 2019 17:18

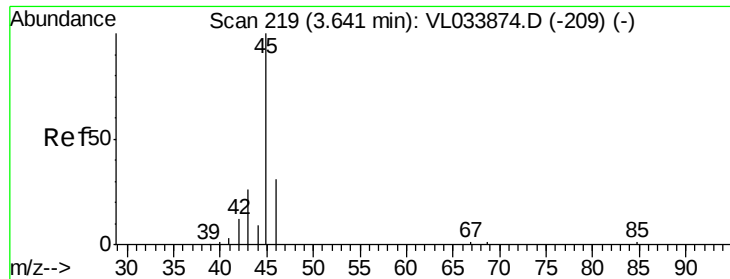
Tgt Ion: 101 Resp: 42554

Ion Ratio Lower Upper

101 100

103 62.3 53.6 80.4





#13

Ethanol

Concen: 11.320 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.00 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2

Tot Ion: 45 Resp: 153838

Ion Ratio Lower Upper

45 100

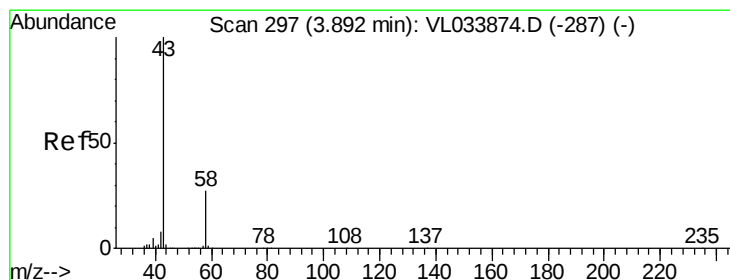
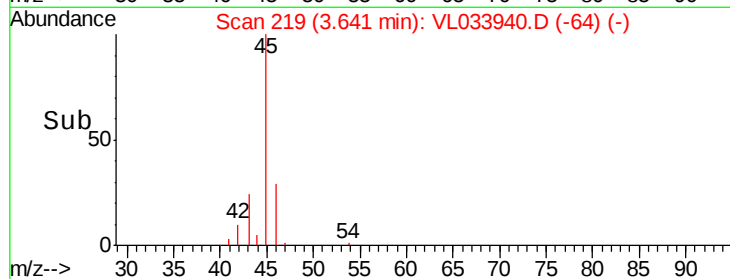
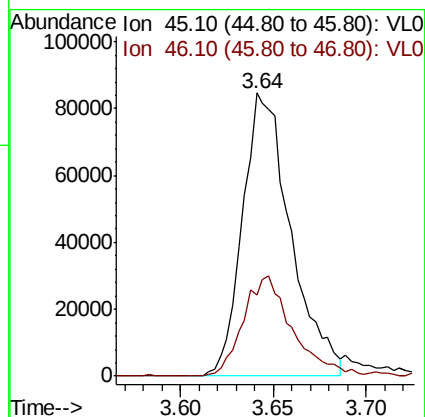
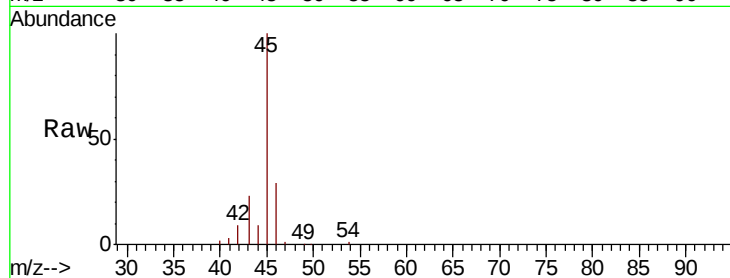
46 37.4 15.3 61.1

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#15

Acetone

Concen: 5.807 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033940.D

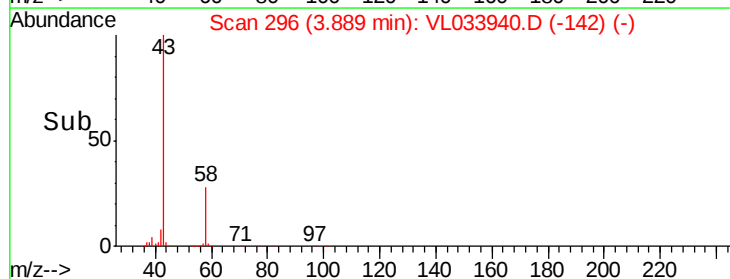
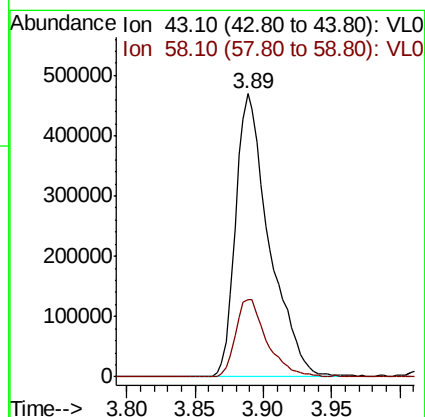
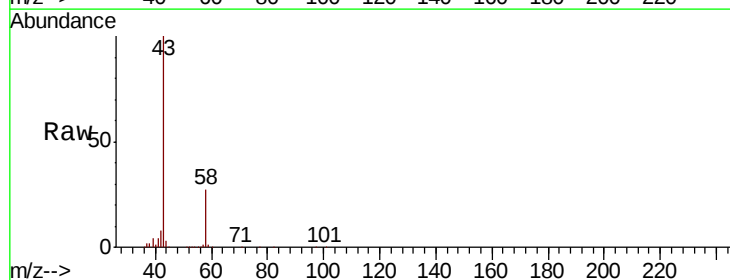
Acq: 24 Jun 2019 17:18

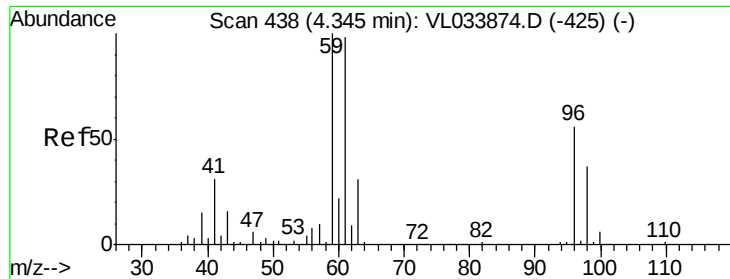
Tgt Ion: 43 Resp: 803048

Ion Ratio Lower Upper

43 100

58 25.8 21.3 31.9





#17

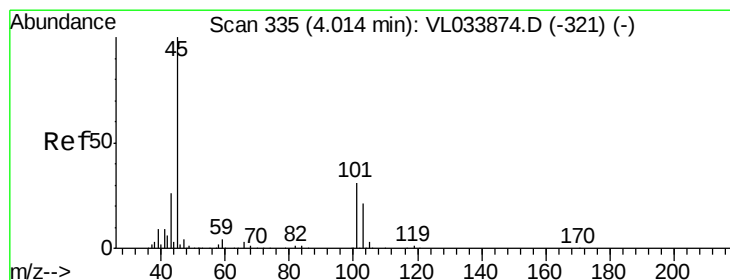
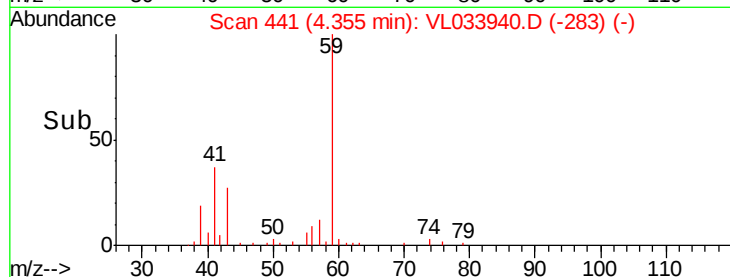
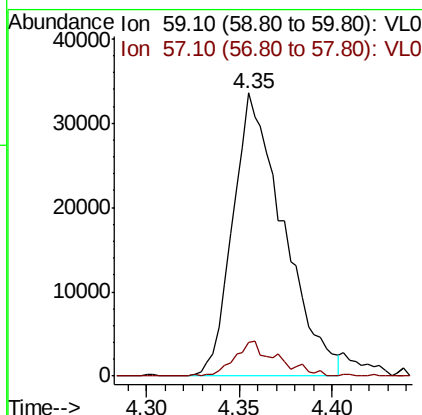
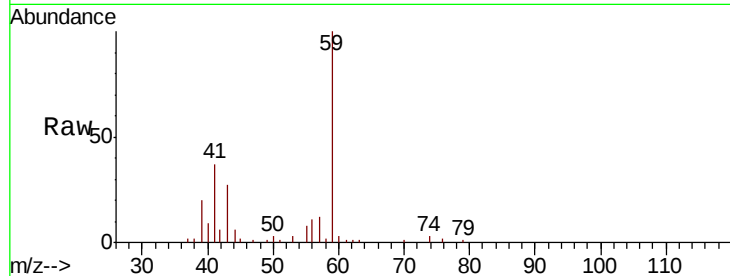
tert-Butyl alcohol
Concen: 0.587 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-2

Tot Ion: 59 Resp: 63511
Ion Ratio Lower Upper
59 100
57 10.6 8.4 12.6

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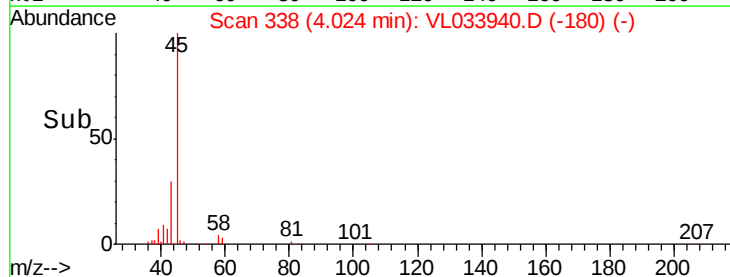
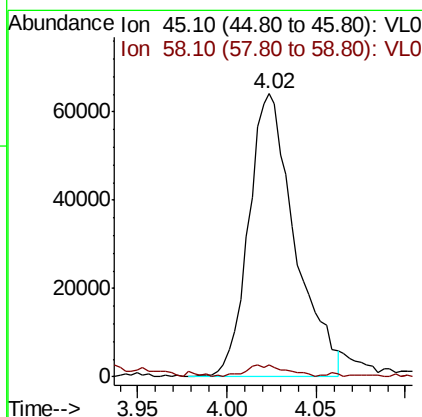
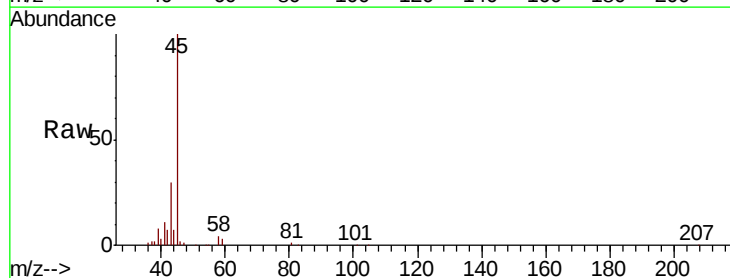
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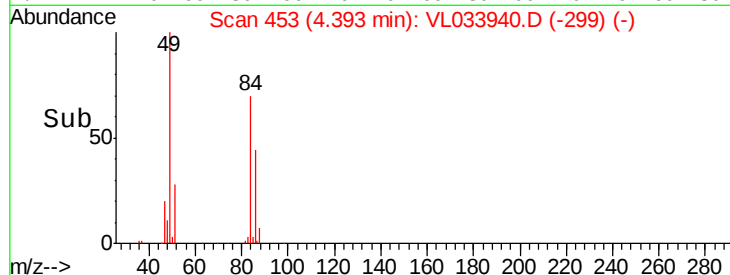
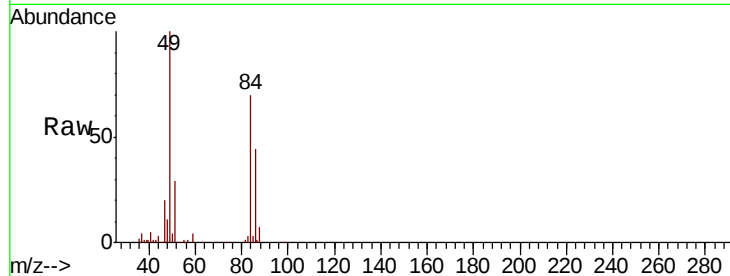
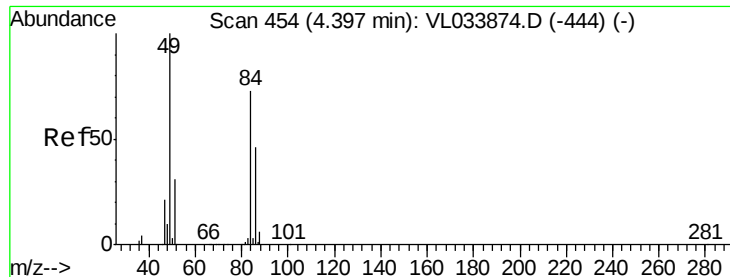


#19

Isopropyl Alcohol
Concen: 1.461 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.01 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Tgt Ion: 45 Resp: 115457
Ion Ratio Lower Upper
45 100
58 179.8 1.8 2.6#





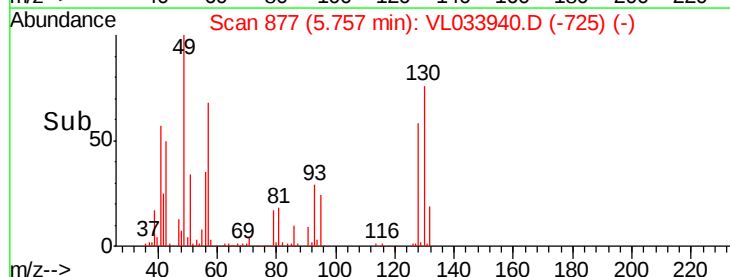
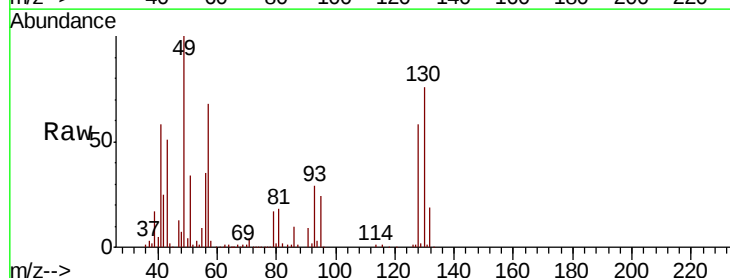
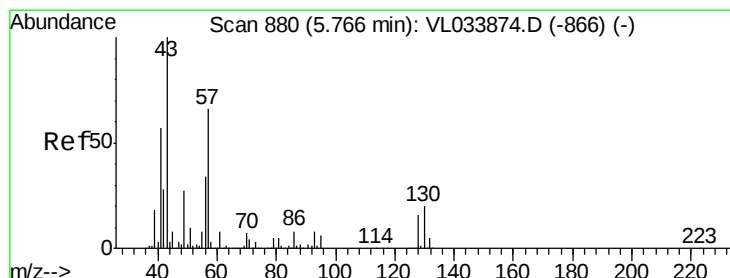
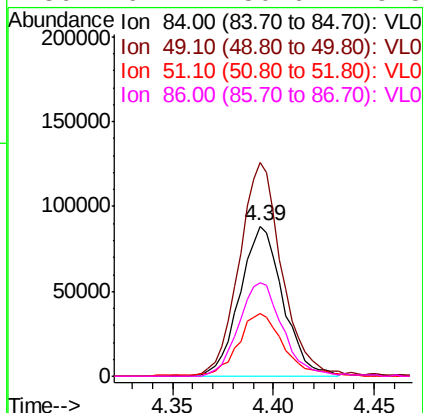
#20
Methvlene Chloride
Concen: 2.461 ppbv
RT: 4.39 min Scan# 453
Delta R.T. -0.00 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Tot Ion	Ratio	Lower	Upper
84	100		
49	141.2	110.0	165.0
51	40.8	34.6	51.8
86	62.1	50.6	75.8

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-2

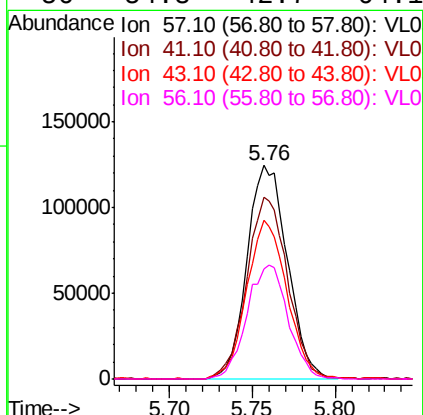
Manual Integrations
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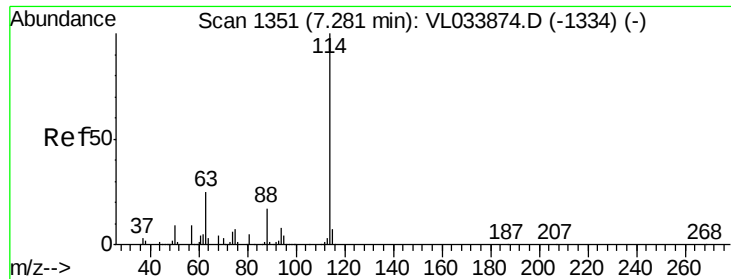
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#26
Hexane
Concen: 2.194 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.8	71.4	107.2
43	74.7	183.7	275.5#
56	54.8	42.7	64.1





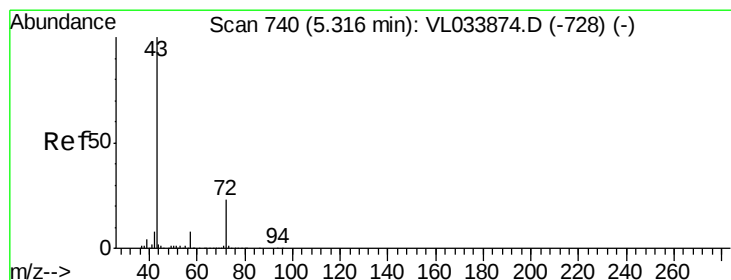
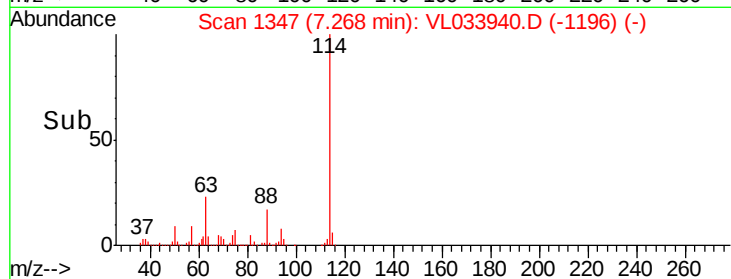
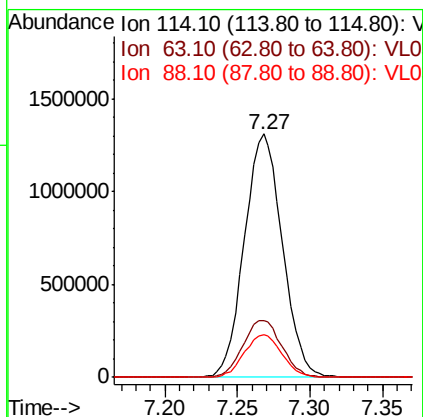
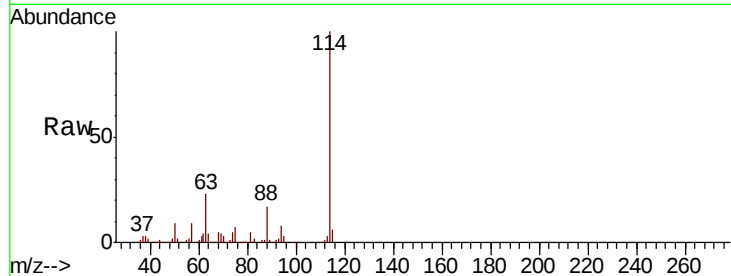
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1347
 Delta R.T. -0.01 min
 Lab File: VL033940.D
 Acq: 24 Jun 2019 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-2

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.1	21.1	31.7
88	17.6	14.2	21.4

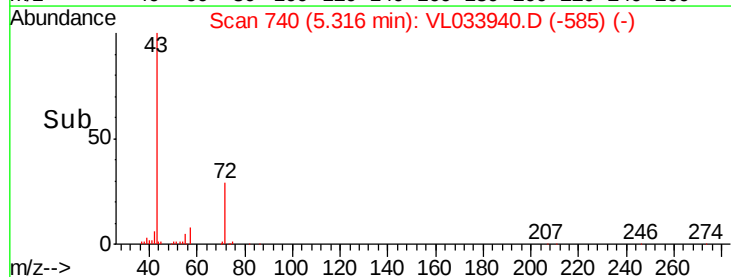
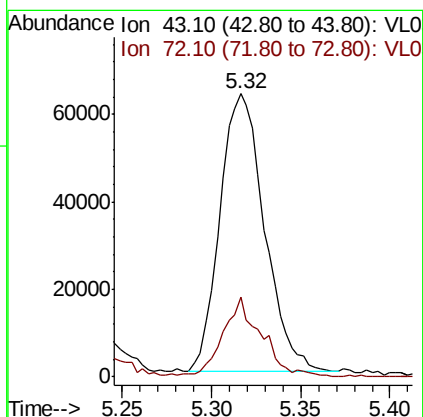
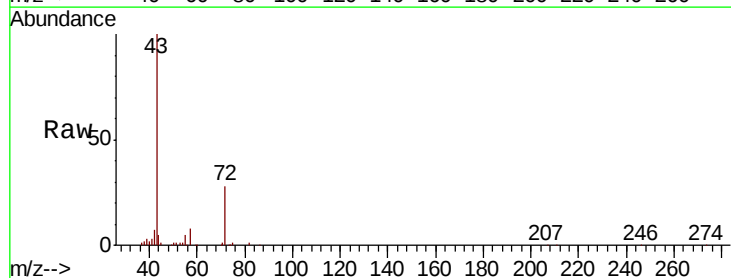
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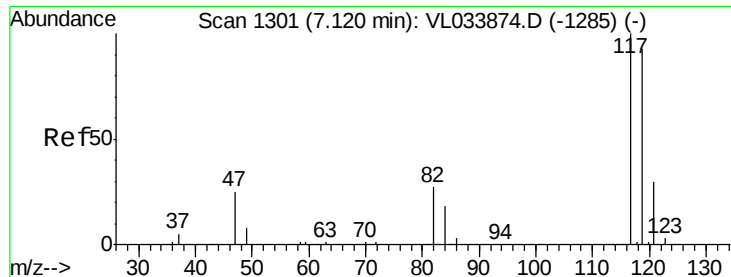
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#34
 2-Butanone
 Concen: 0.816 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. -0.00 min
 Lab File: VL033940.D
 Acq: 24 Jun 2019 17:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.3	17.9	26.9





#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.11 min Scan# 1297

Delta R.T. -0.01 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Instrument :

MSVOA_L

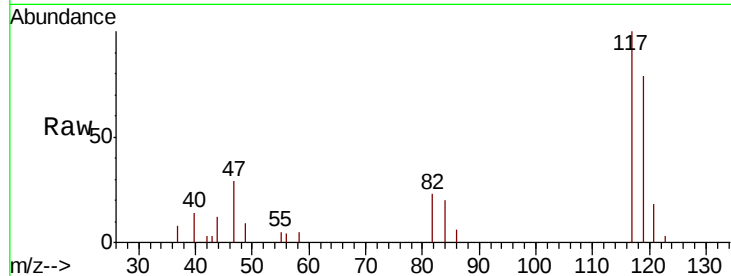
ClientSampleId :

TZC-SSDS-AREA-D-2

Tot Ion	Ratio	Lower	Upper
117	100		
119	78.9	74.6	111.8
121	17.8	24.0	36.0#

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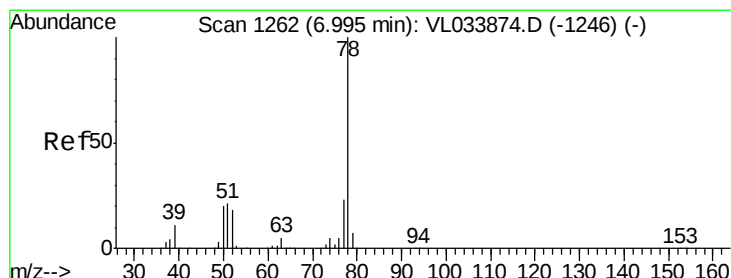
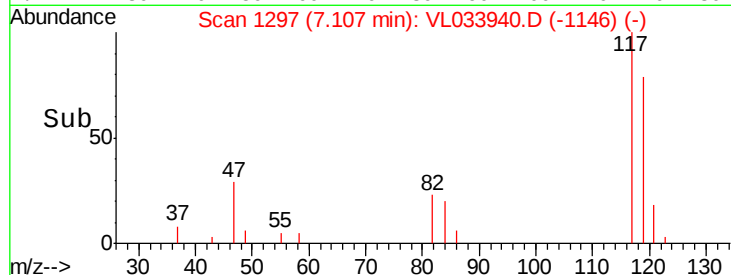
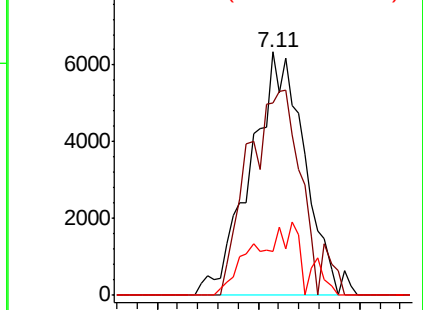


Abundance

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: 0.187 ppbv

RT: 6.98 min Scan# 1257

Delta R.T. -0.02 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

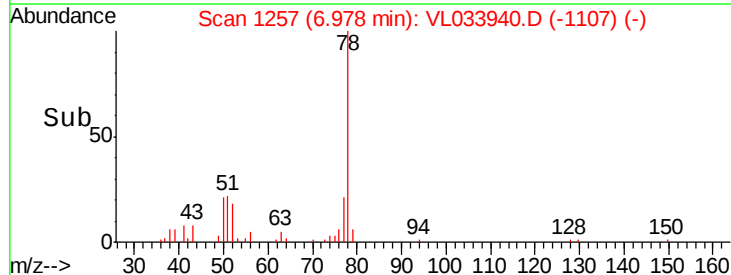
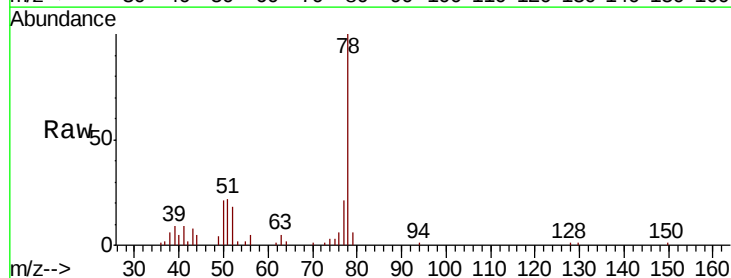
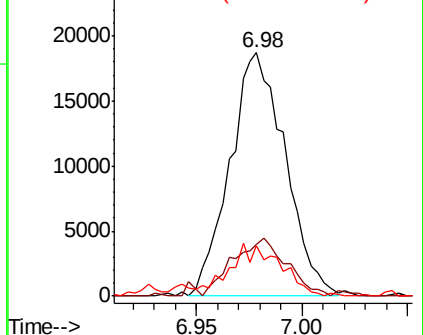
Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.2	27.2
50	19.6	15.9	23.9

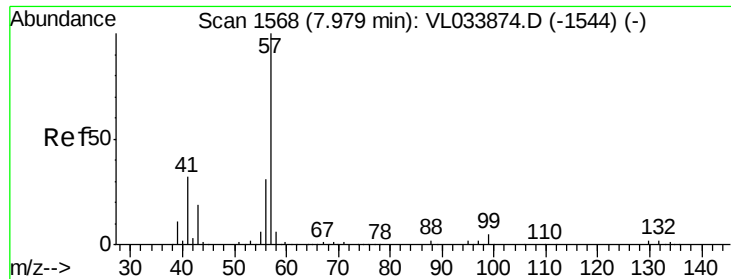
Abundance

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





#44

2,2,4-Trimethylpentane

Concen: 0.105 ppbv m

RT: 7.97 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Instrument :

MSVOA_L

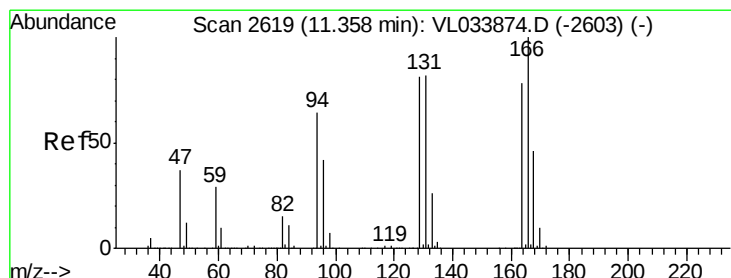
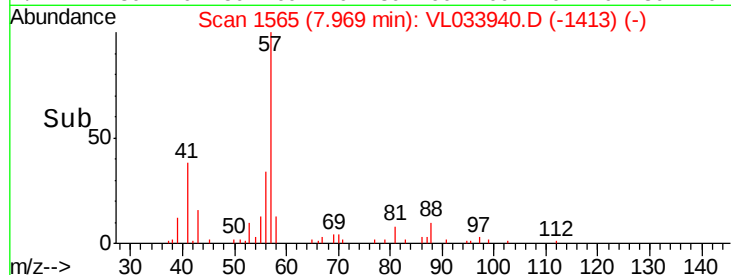
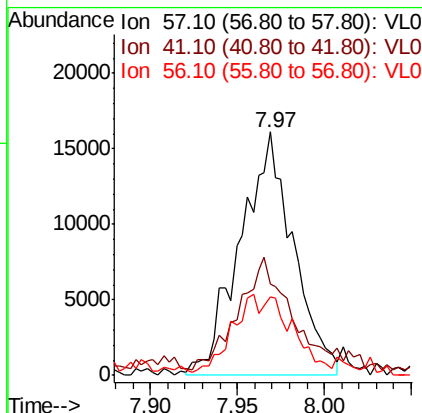
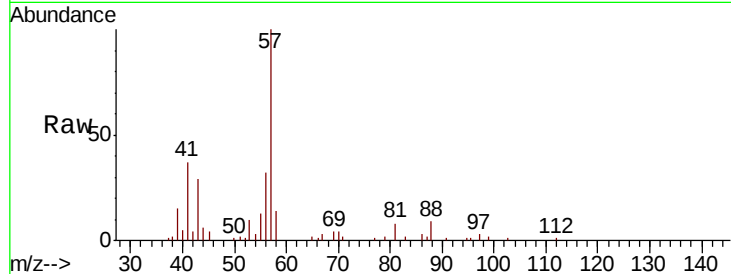
ClientSampleId :

TZC-SSDS-AREA-D-2

Tot Ion:	57	Resp:	34261
Ion Ratio	Lower	Upper	
57	100		
41	56.0	26.1	39.1#
56	42.0	24.6	36.8#

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#52

Tetrachloroethene

Concen: 0.048 ppbv m

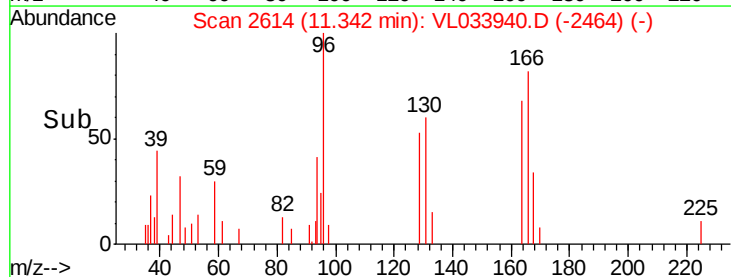
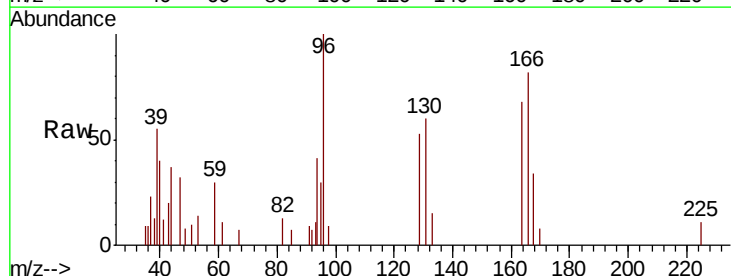
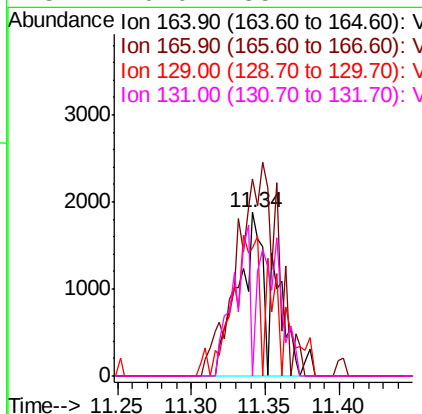
RT: 11.34 min Scan# 2614

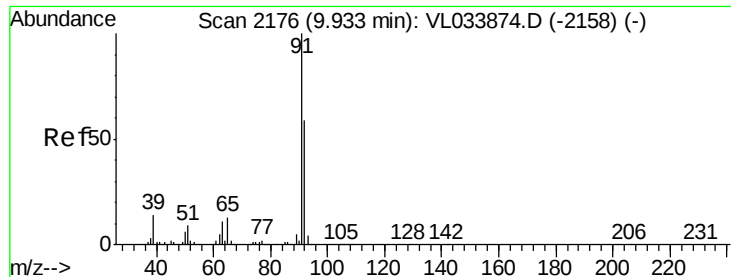
Delta R.T. -0.02 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Tgt Ion:	164	Resp:	3073
Ion Ratio	Lower	Upper	
164	100		
166	120.4	103.1	154.7
129	78.0	83.9	125.9#
131	0.0	85.1	127.7#





#53

Toluene

Concen: 15.813 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-2

Tot Ion: 91 Resp: 3198555

Ion Ratio Lower Upper

91 100

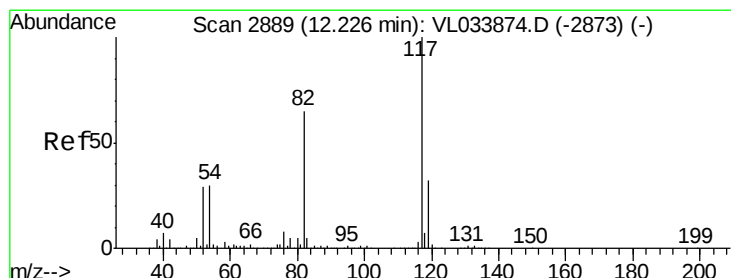
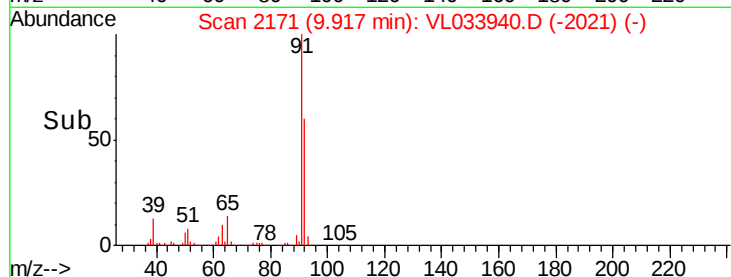
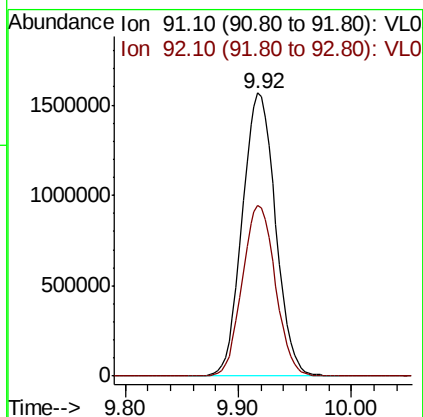
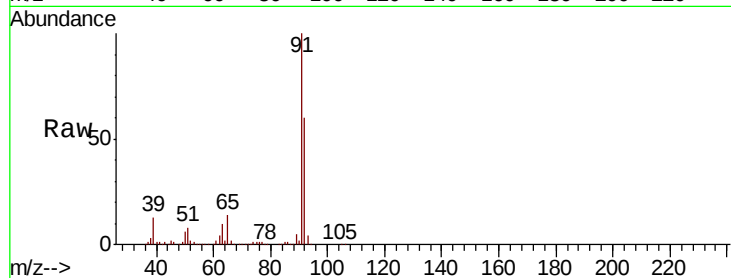
92 60.3 47.0 70.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033940.D

Acq: 24 Jun 2019 17:18

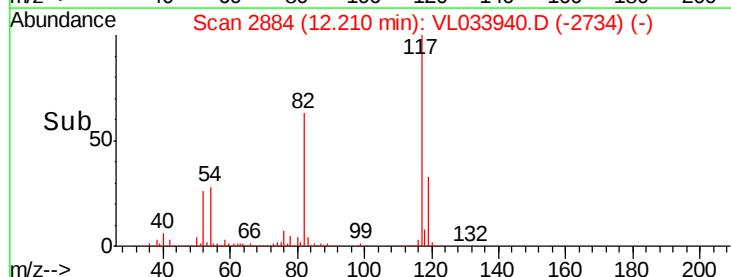
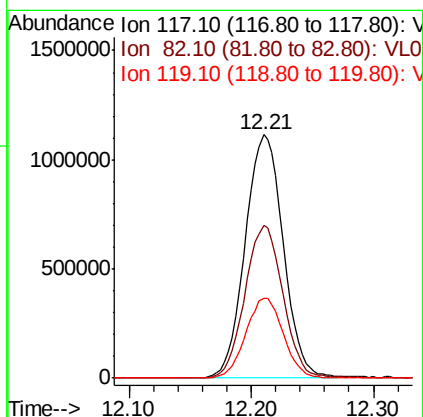
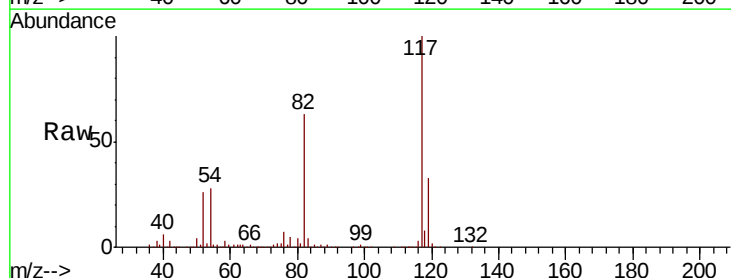
Tgt Ion: 117 Resp: 2401035

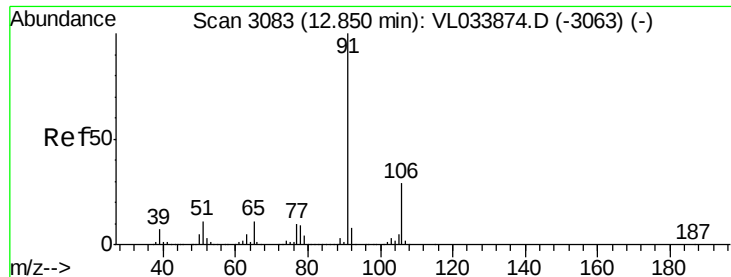
Ion Ratio Lower Upper

117 100

82 63.3 50.2 75.2

119 32.6 24.8 37.2





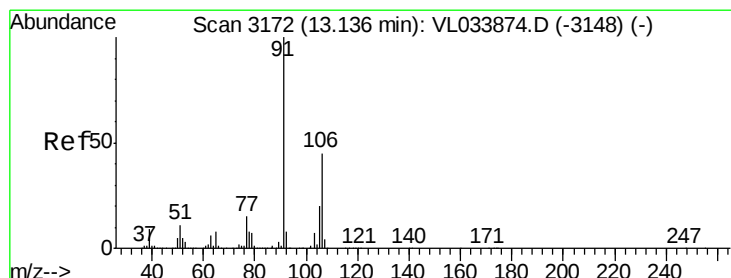
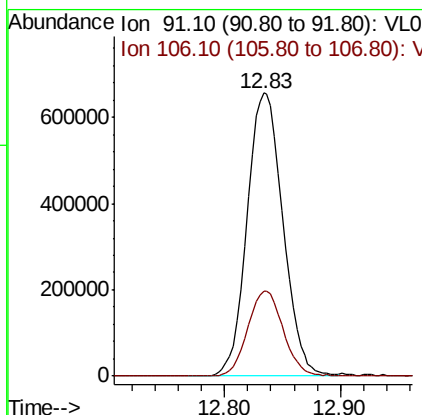
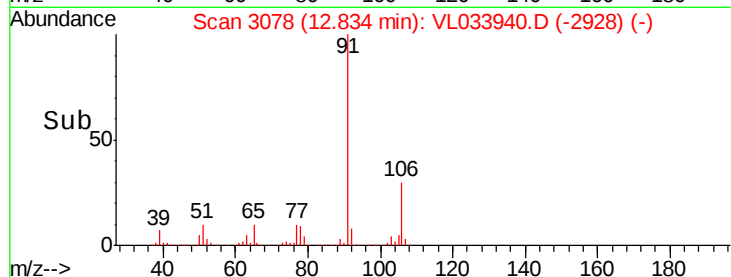
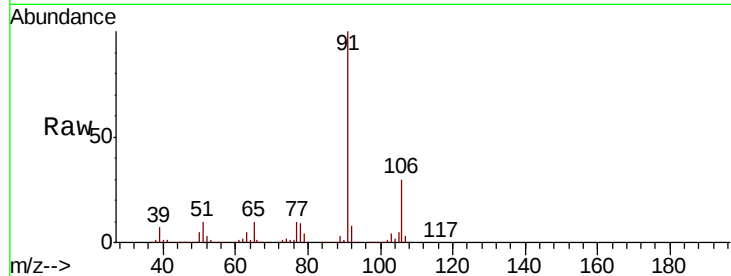
#58
Ethyl Benzene
Concen: 5.223 ppbv
RT: 12.83 min Scan# 3078
Delta R.T. -0.02 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-2

Tot Ion: 91 Resp: 1413939
Ion Ratio Lower Upper
91 100
106 30.2 23.0 34.6

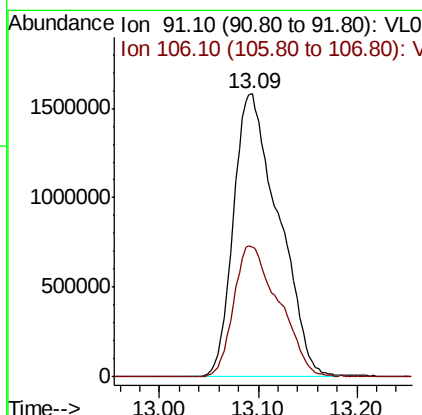
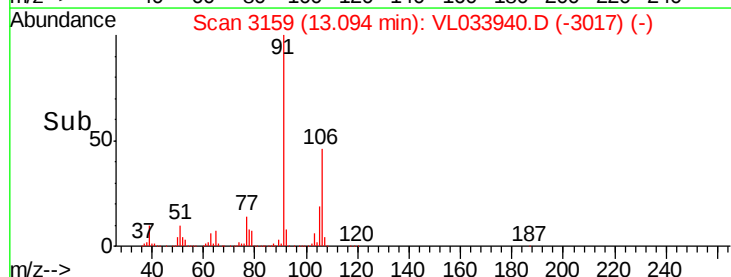
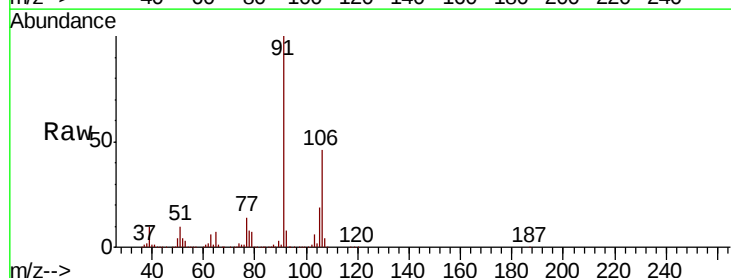
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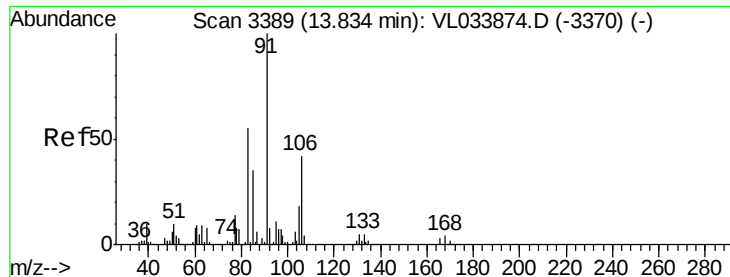
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#59
m/p-Xylene
Concen: 20.352 ppbv
RT: 13.09 min Scan# 3159
Delta R.T. -0.04 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Tgt Ion: 91 Resp: 5009912
Ion Ratio Lower Upper
91 100
106 46.7 35.8 53.8





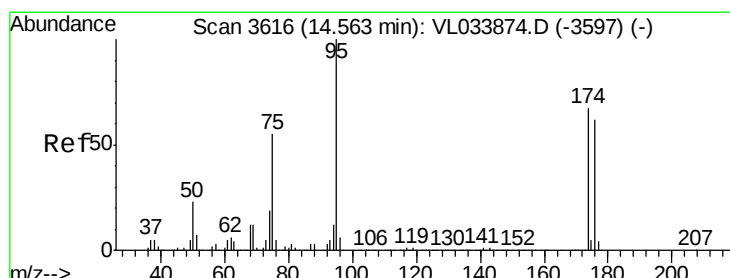
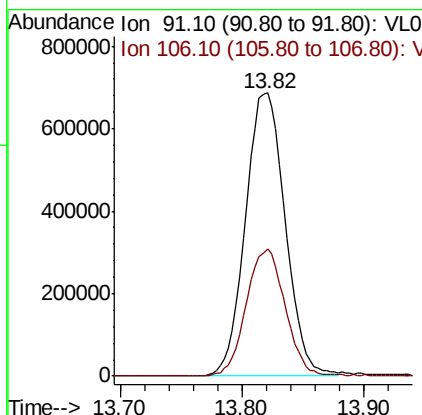
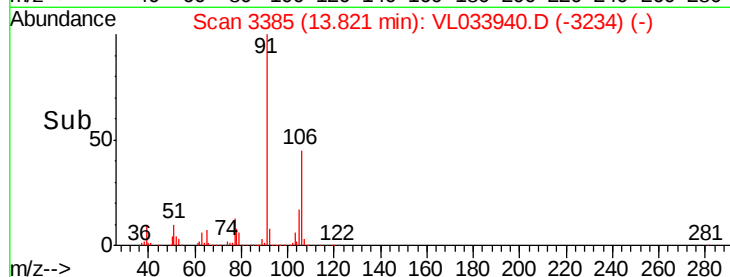
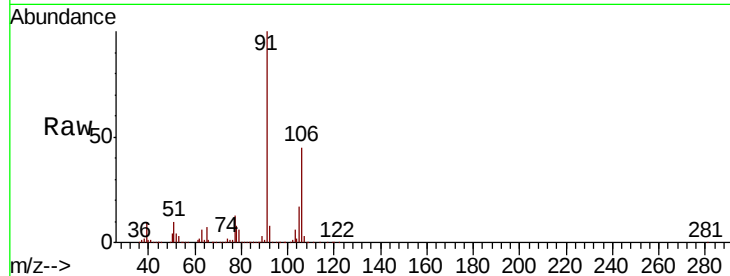
#60
o-Xylene
Concen: 6.083 ppbv
RT: 13.82 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-2

Tot Ion: 91 Resp: 1546176
Ion Ratio Lower Upper
91 100
106 44.6 21.7 65.1

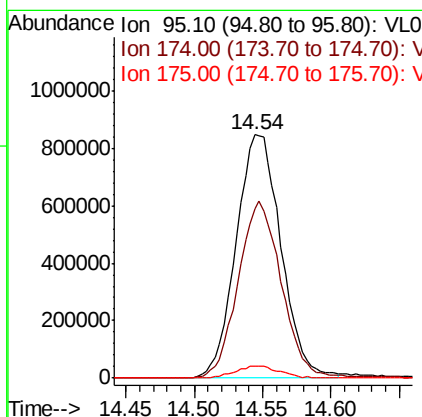
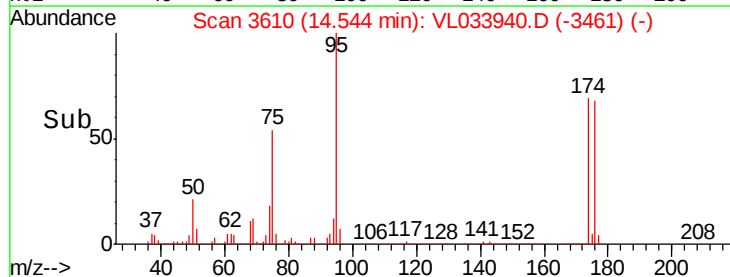
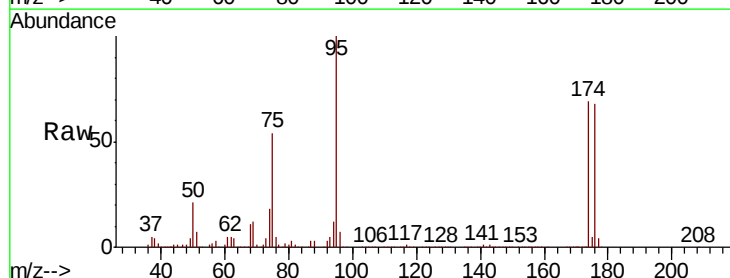
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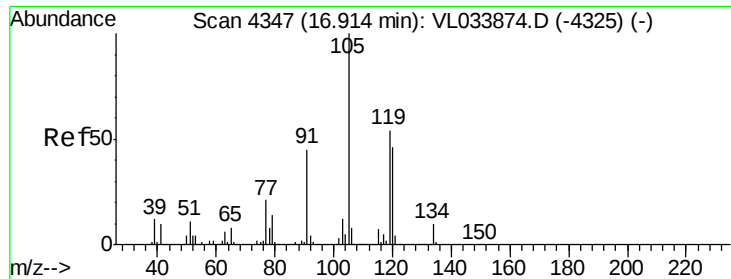
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.788 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033940.D
Acq: 24 Jun 2019 17:18

Tgt Ion: 95 Resp: 1930399
Ion Ratio Lower Upper
95 100
174 71.2 54.0 81.0
175 5.1 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.215 ppbv m
 RT: 16.89 min Scan# 4341
 Delta R.T. -0.02 min
 Lab File: VL033940.D
 Acq: 24 Jun 2019 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-2

Tot Ion:	105	Resp:	70514
Ion Ratio	Lower	Upper	
105	100		
120	36.9	36.7	55.1
91	14.9	35.8	53.8#
77	17.3	16.9	25.3

Manual Integrations
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 7/1/2019 5:01:19 PM

